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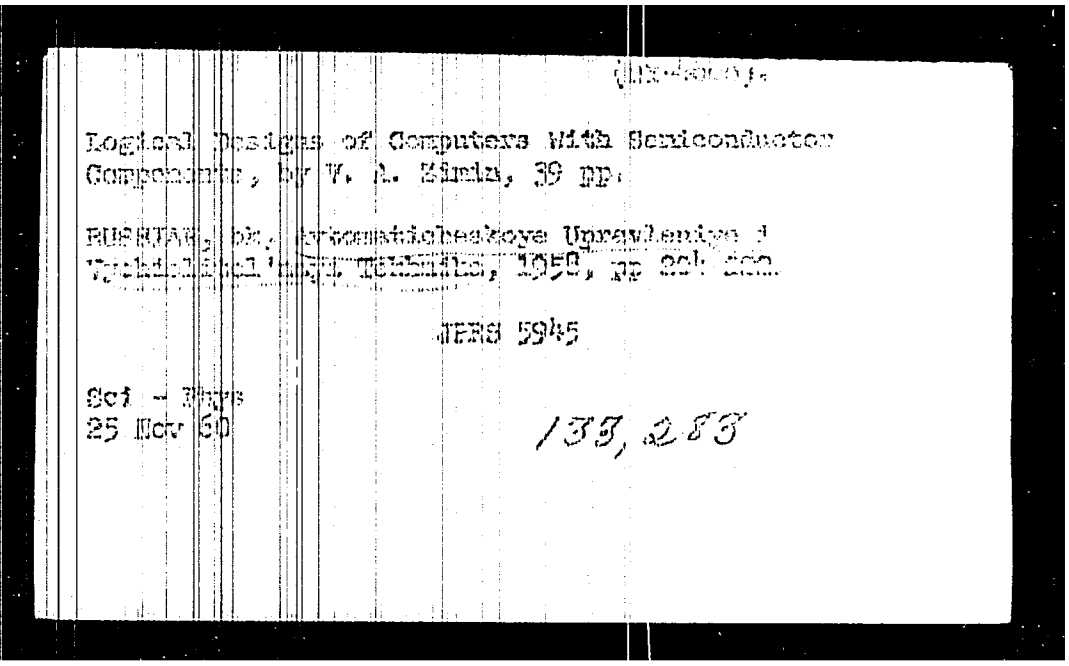

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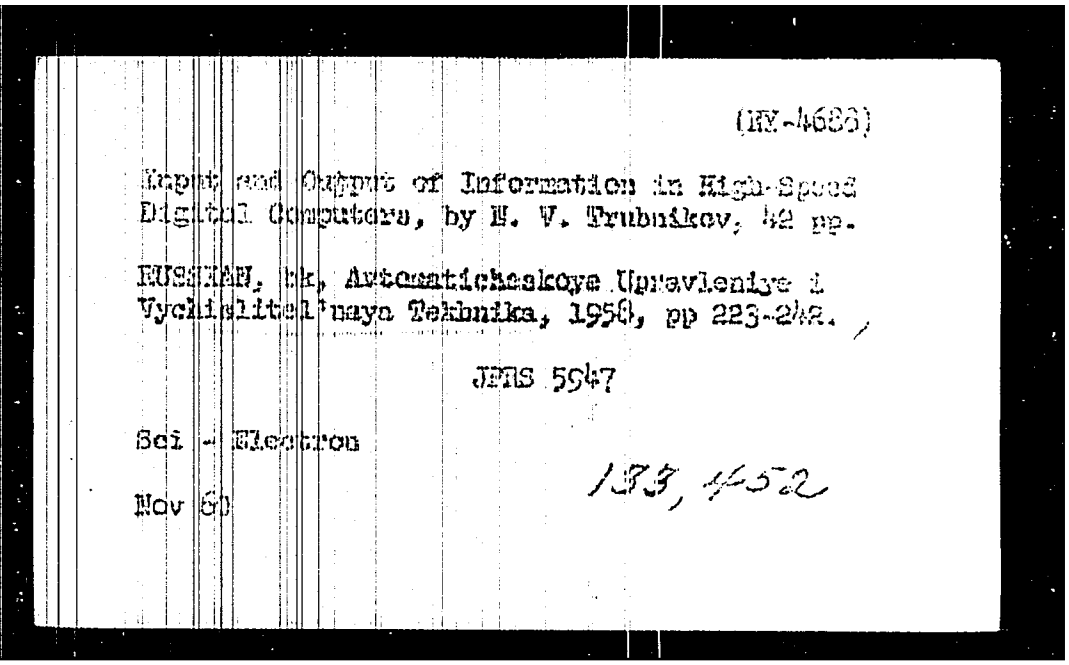

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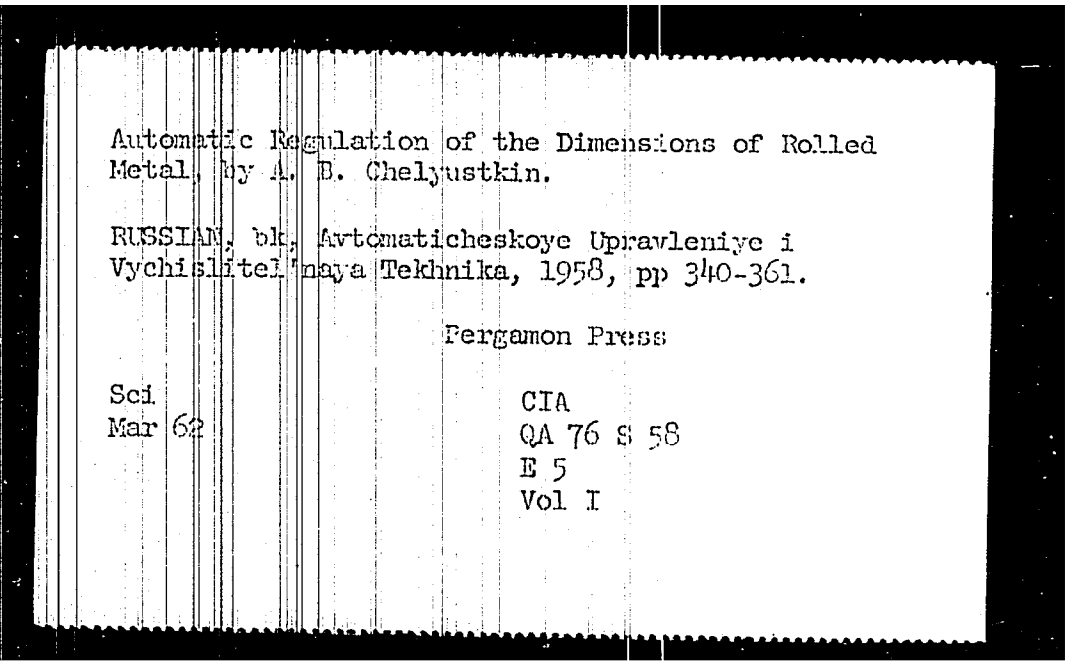

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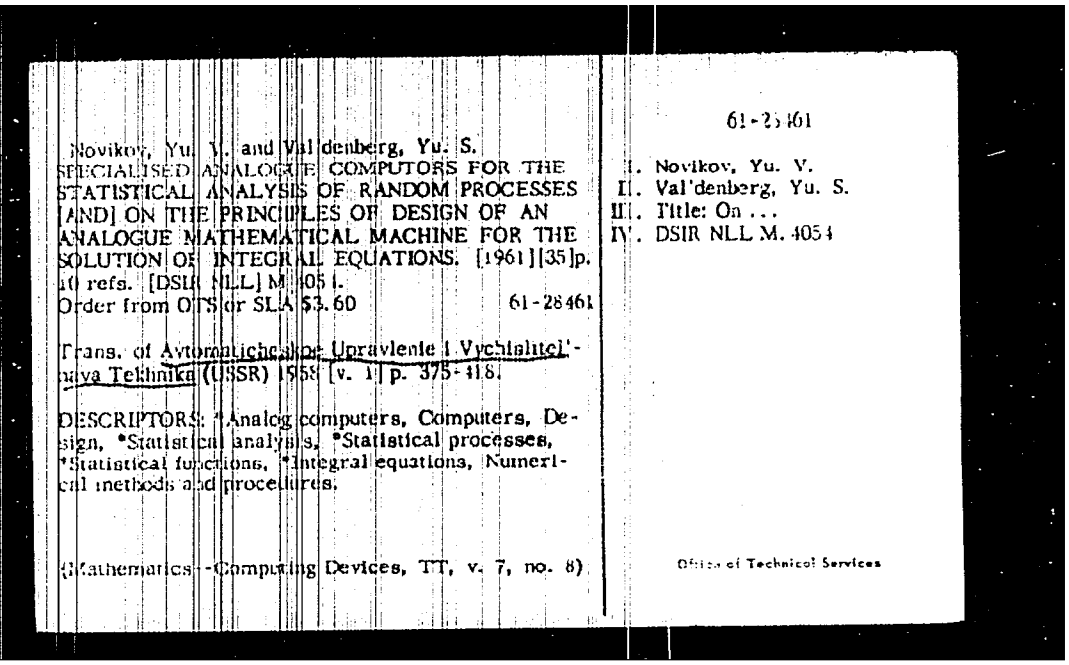

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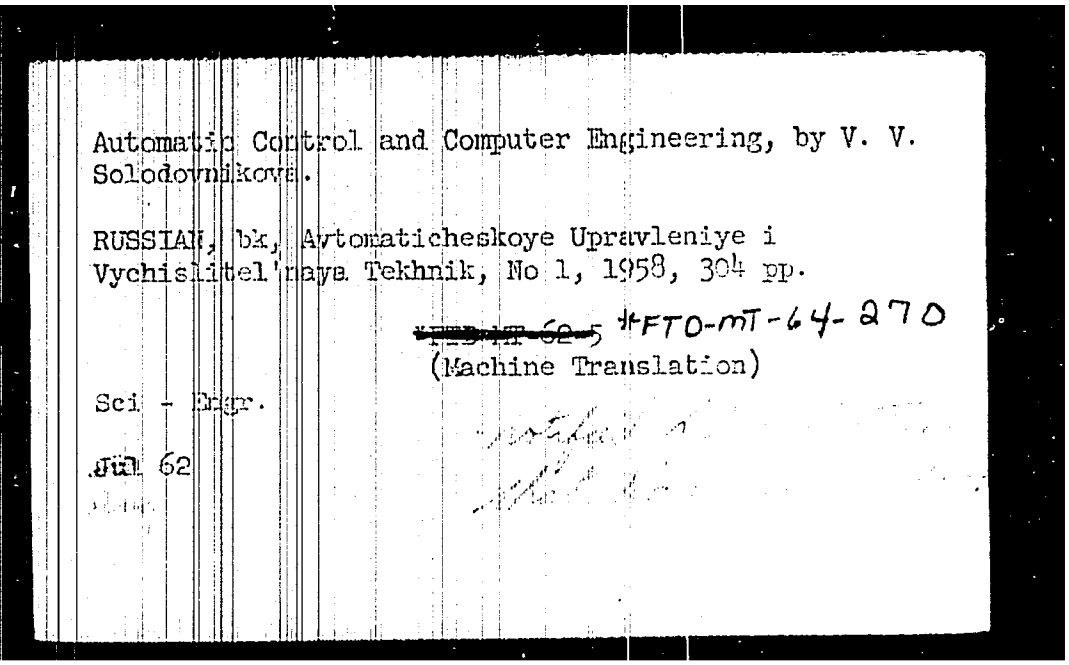

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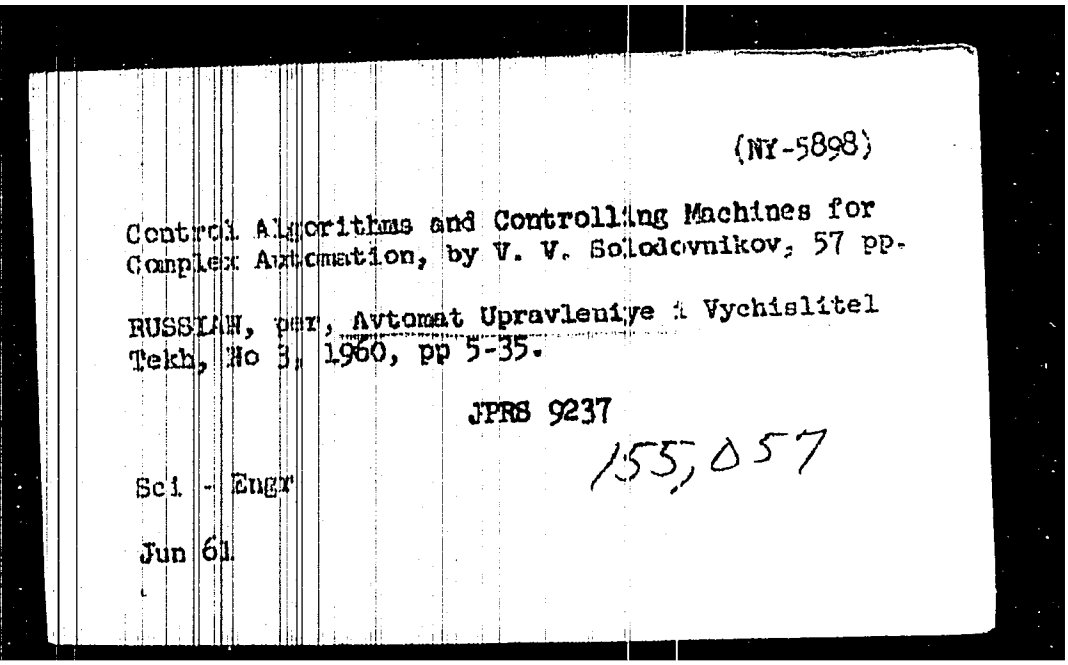

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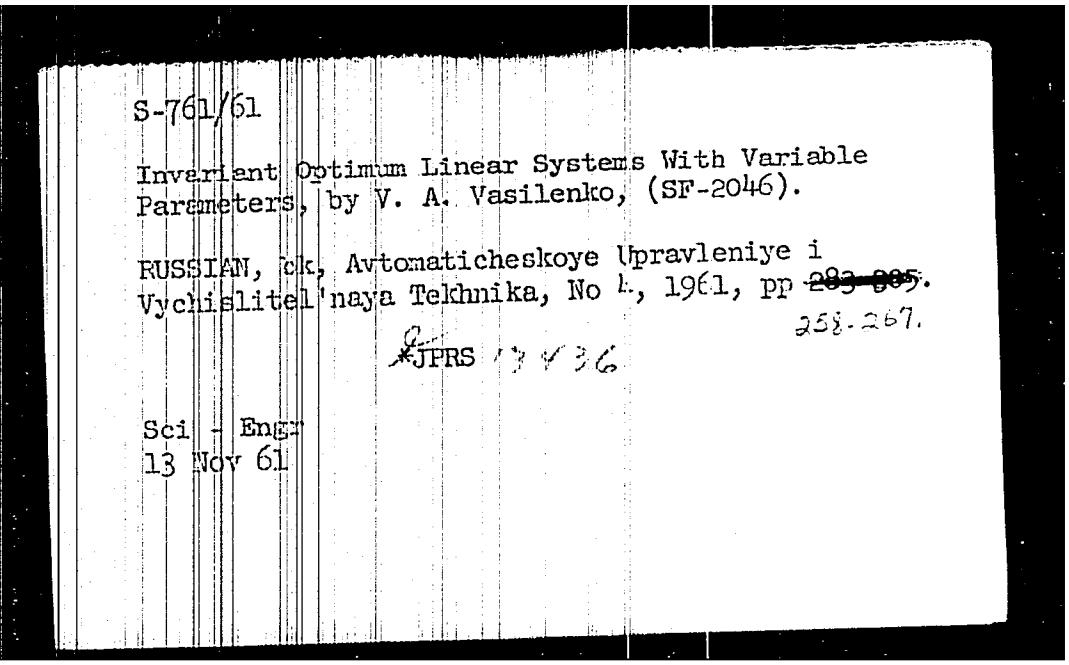

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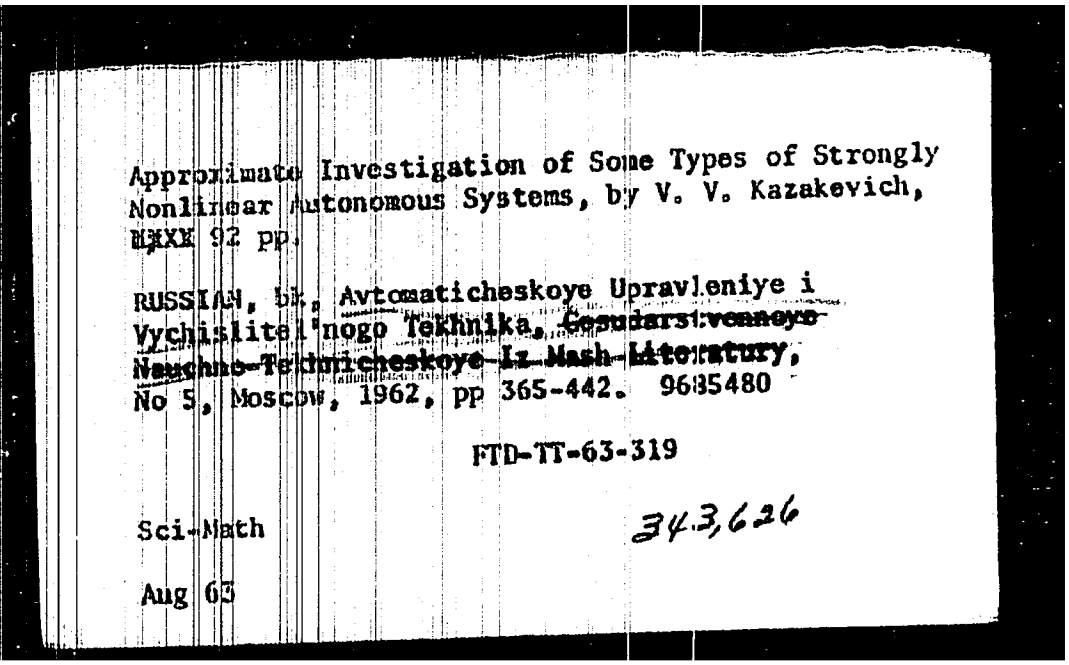

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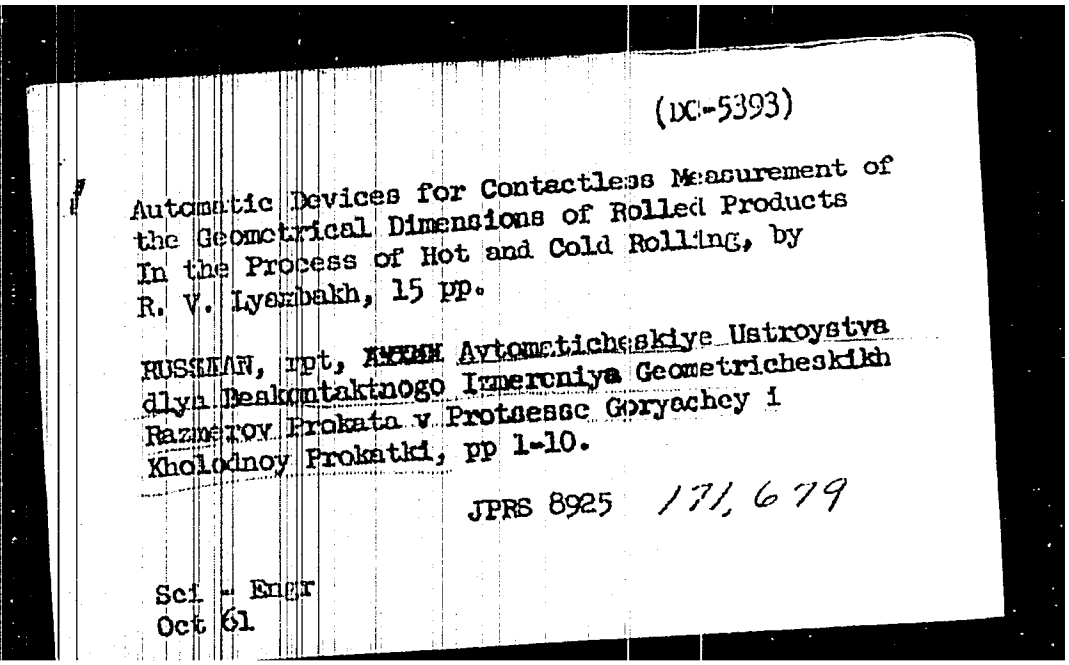

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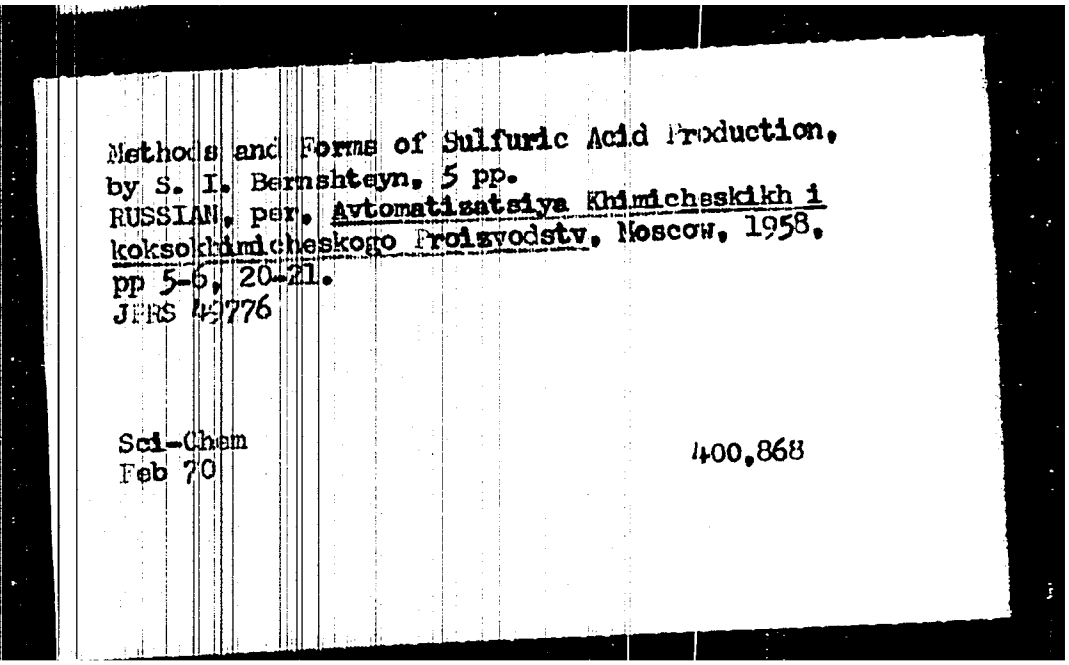

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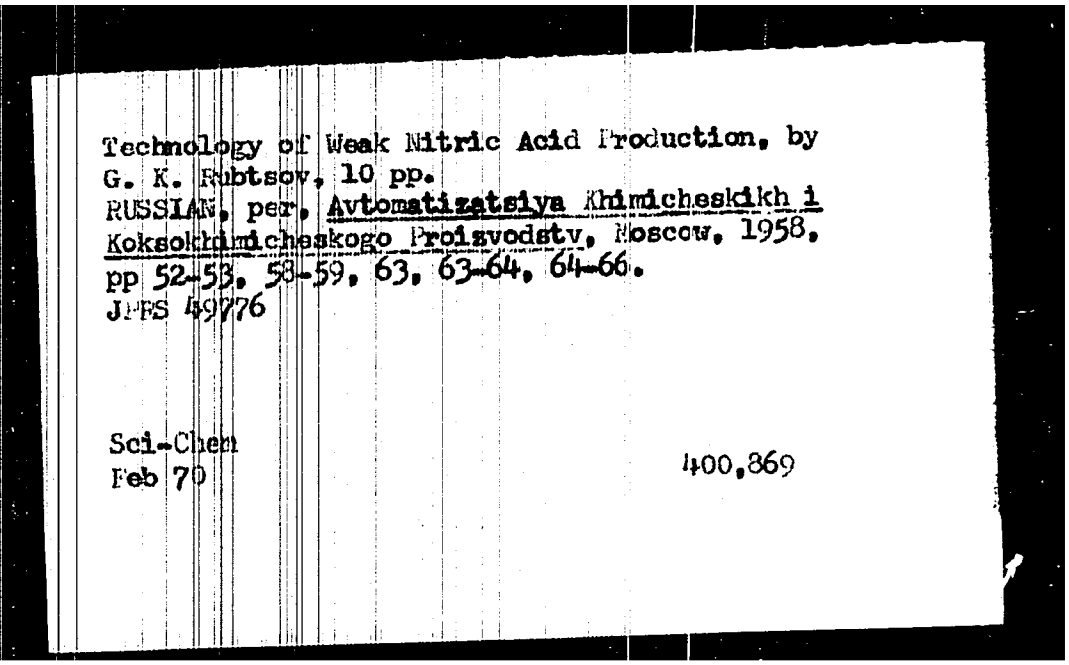

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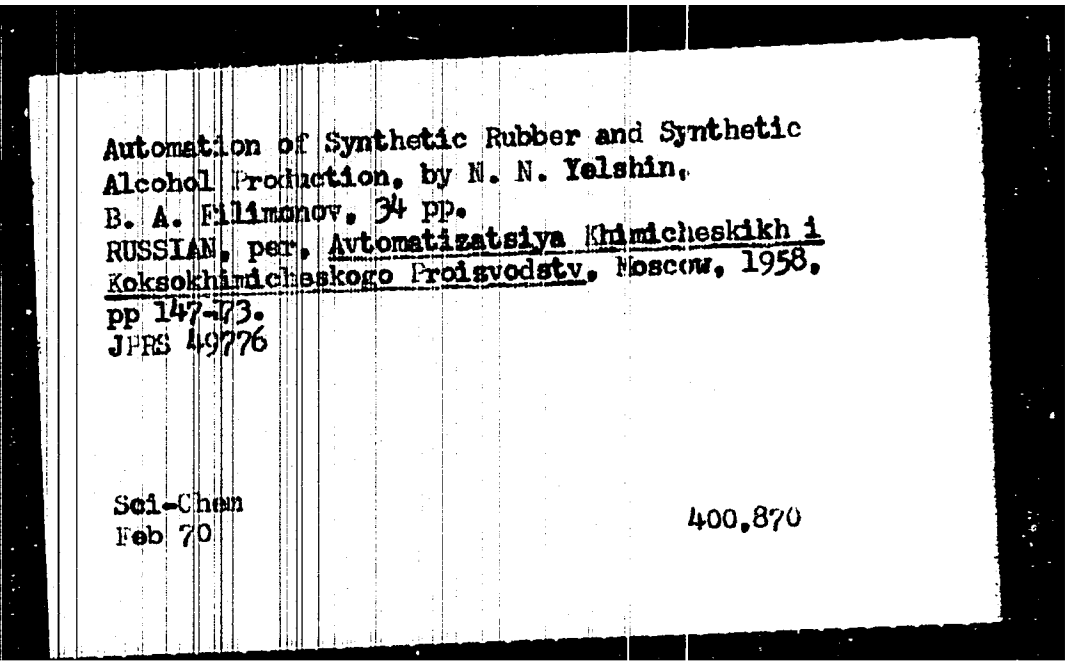

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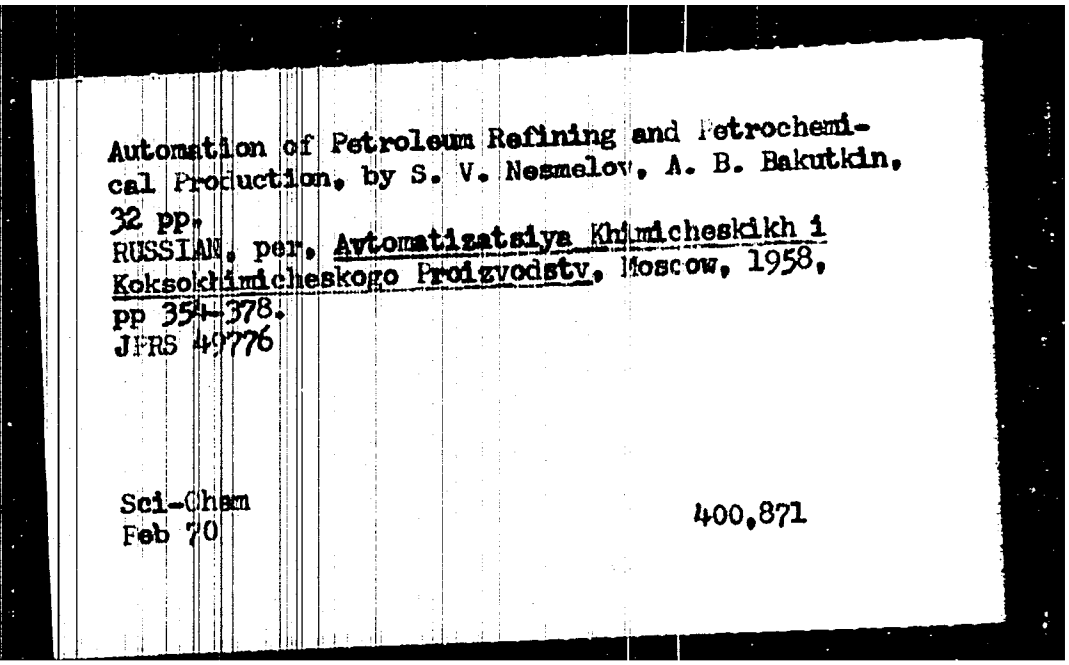

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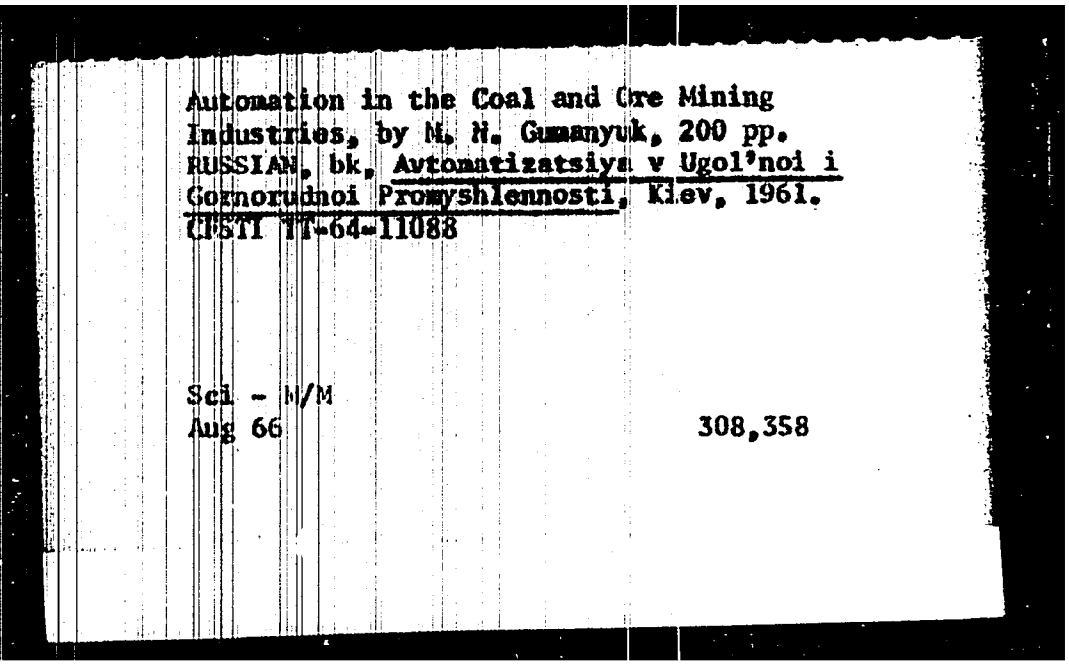

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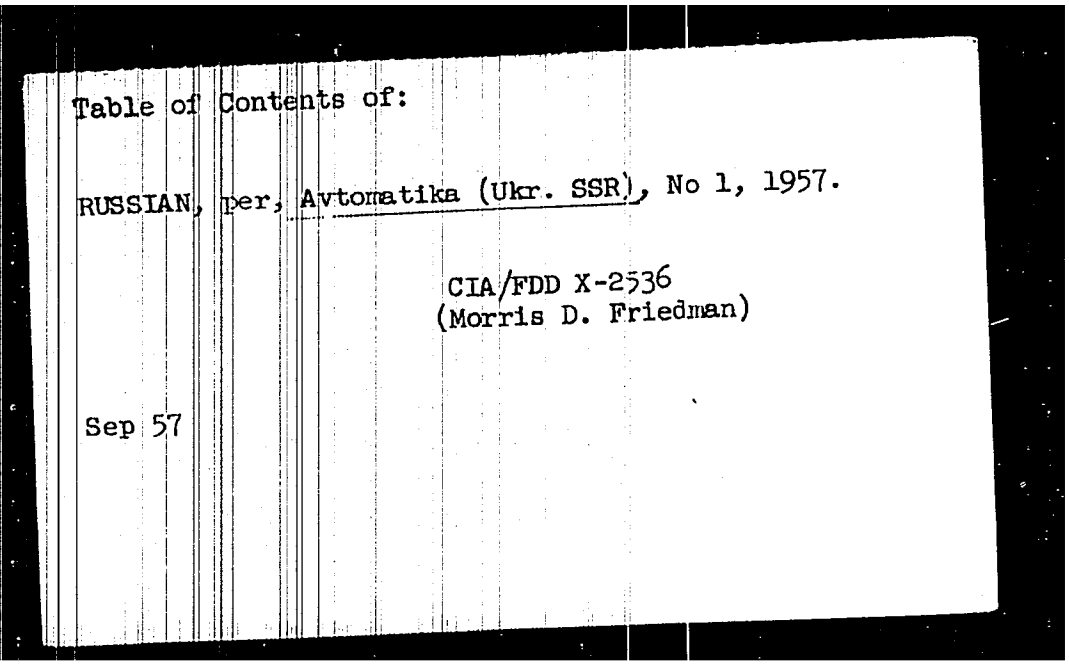

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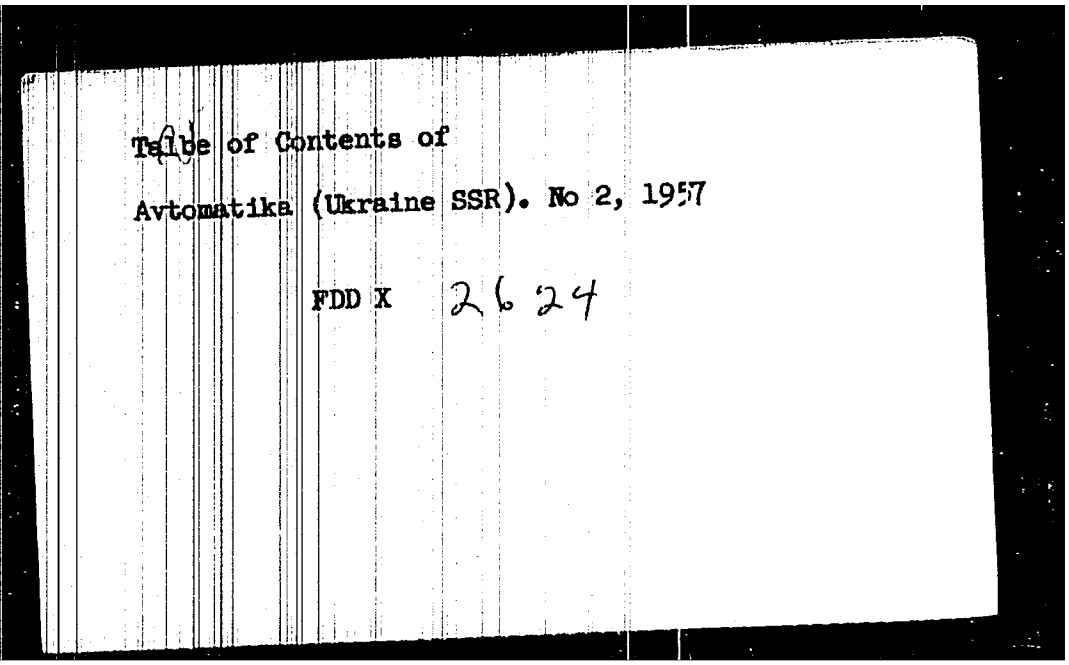

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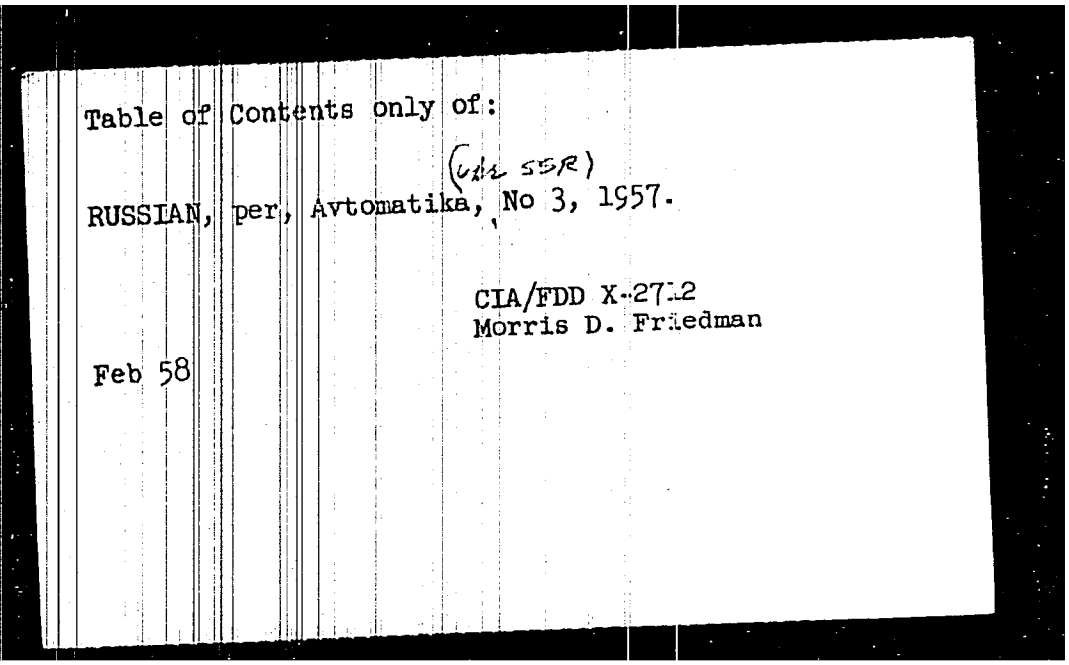

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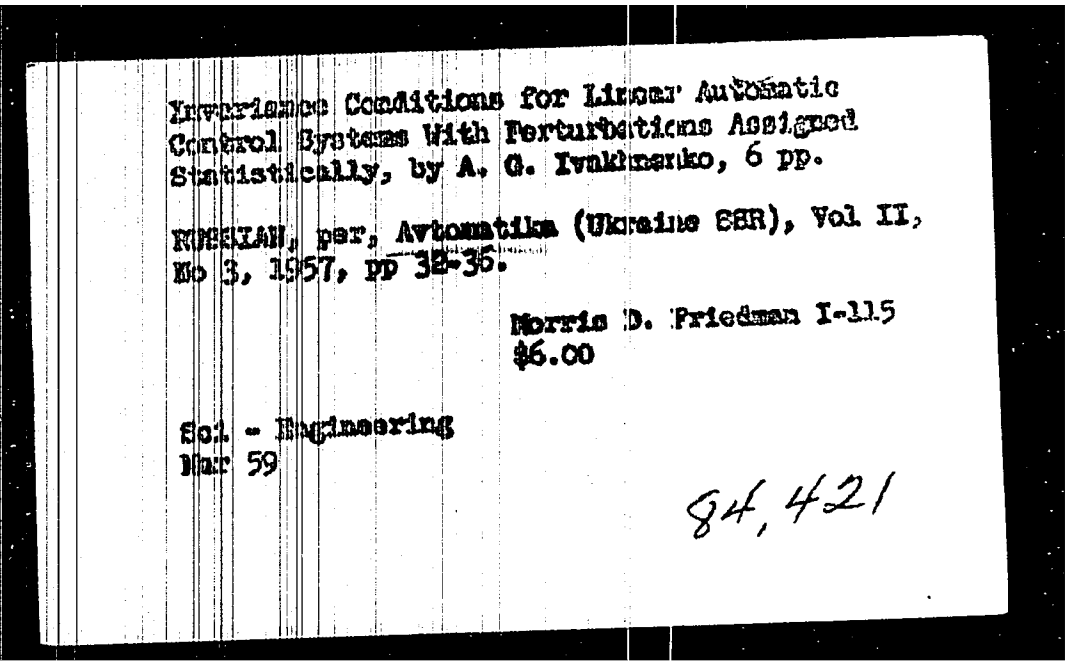

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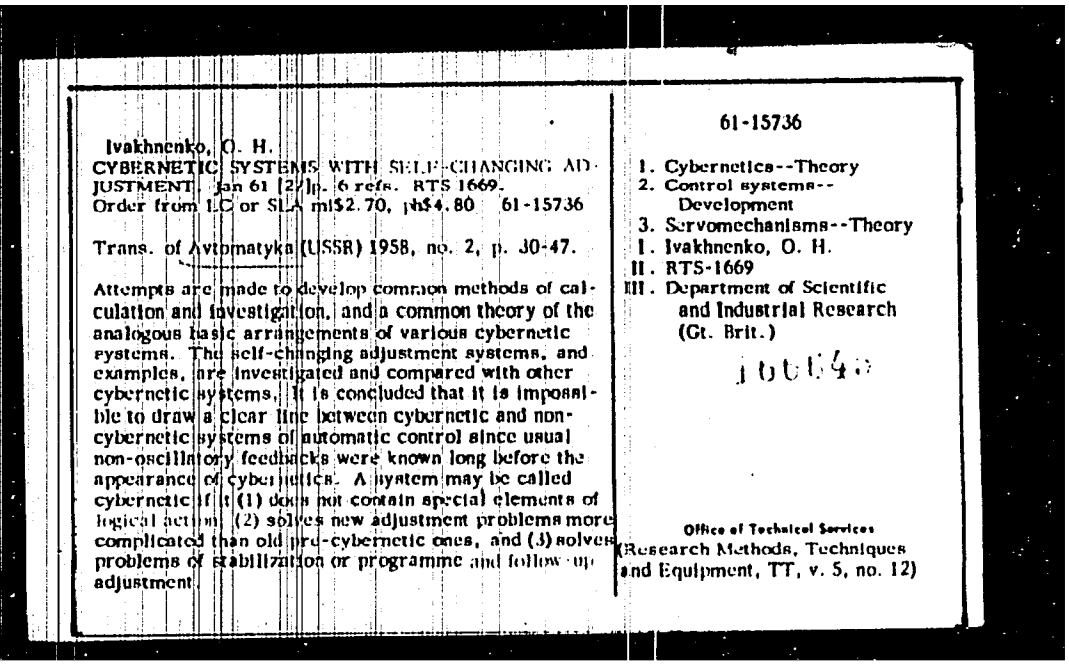

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CYBERNETIC SYSTEMS WITH SELF-CHANGING ADJUSTMENT. Jan 61 [2]p. 6 refs. RTS 1669.
Order from LC or SLA m$2.70, ph$4.80 61-15736

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Attempts are made to develop common methods of calculation and investigation, and a common theory of the analogous basic arrangements of various cybernetic systems. The self-changing adjustment systems, and examples, are investigated and compared with other cybernetic systems. It is concluded that it is impossible to draw a clear line between cybernetic and non-cybernetic systems of automatic control since usual non-oscillatory feedbacks were known long before the appearance of cybernetics. A system may be called cybernetic if it (1) does not contain special elements of logical action, (2) solves new adjustment problems more complicated than old pre-cybernetic ones, and (3) solves problems of stabilization or programme and follow-up adjustment.

61-15736

1. Cybernetics--Theory
2. Control systems--Development
3. Servomechanisms--Theory
I. Ivakhnenko, O. H.
II. RTS-1669
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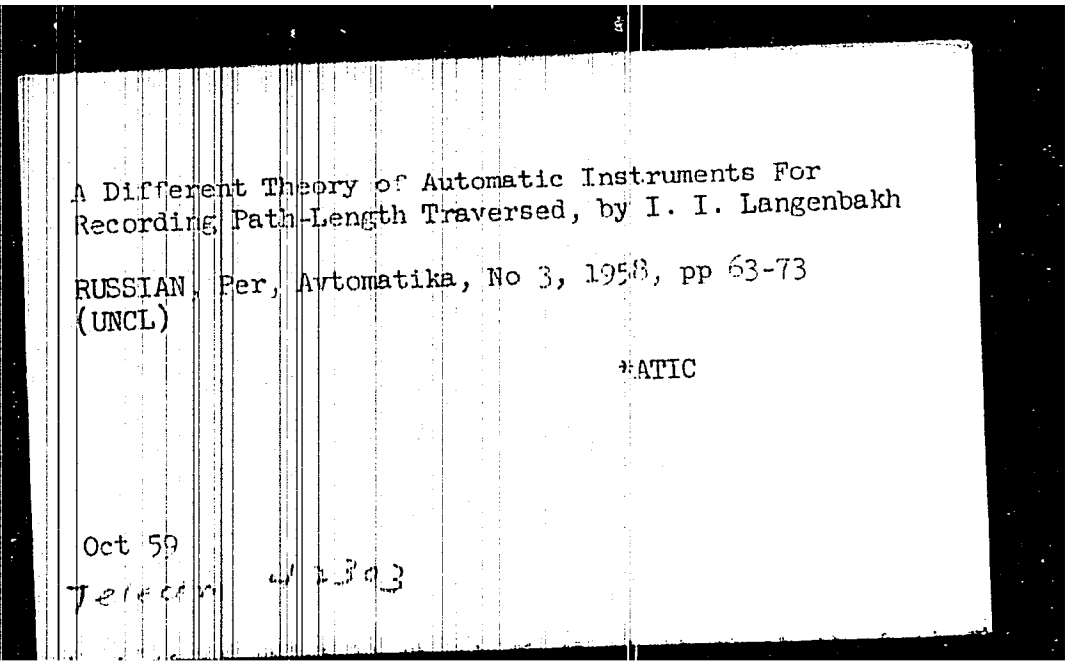

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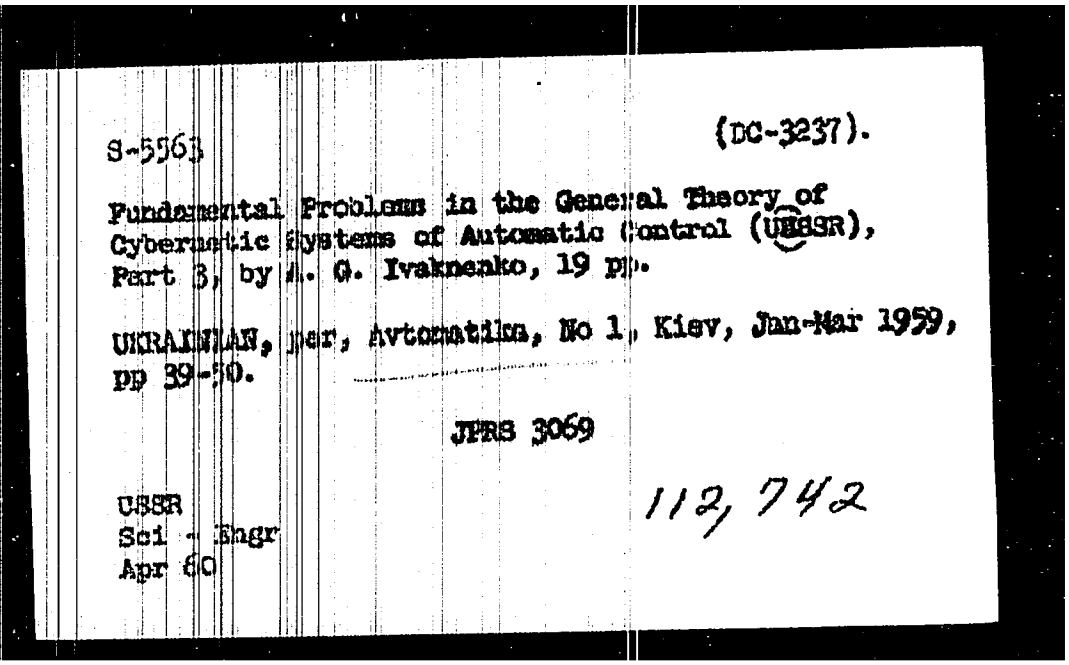

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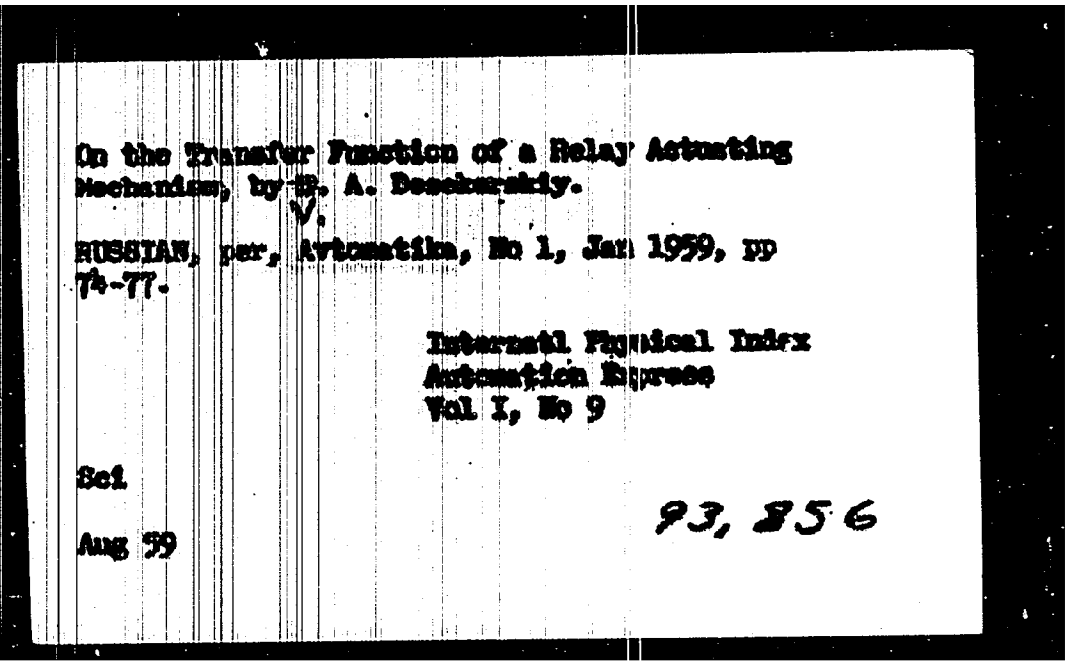

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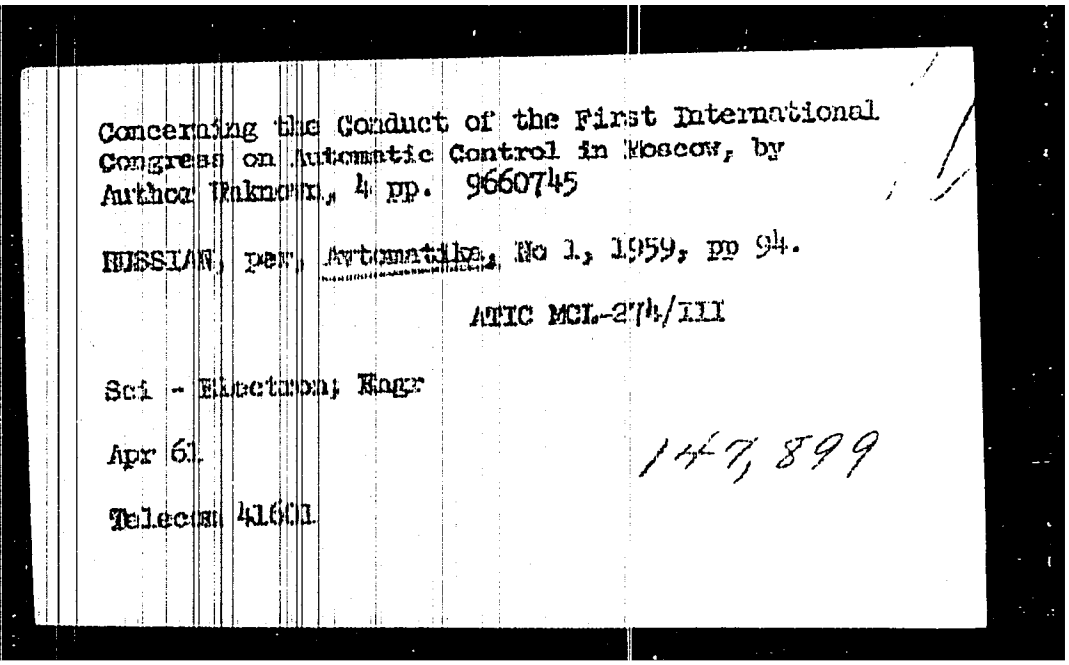

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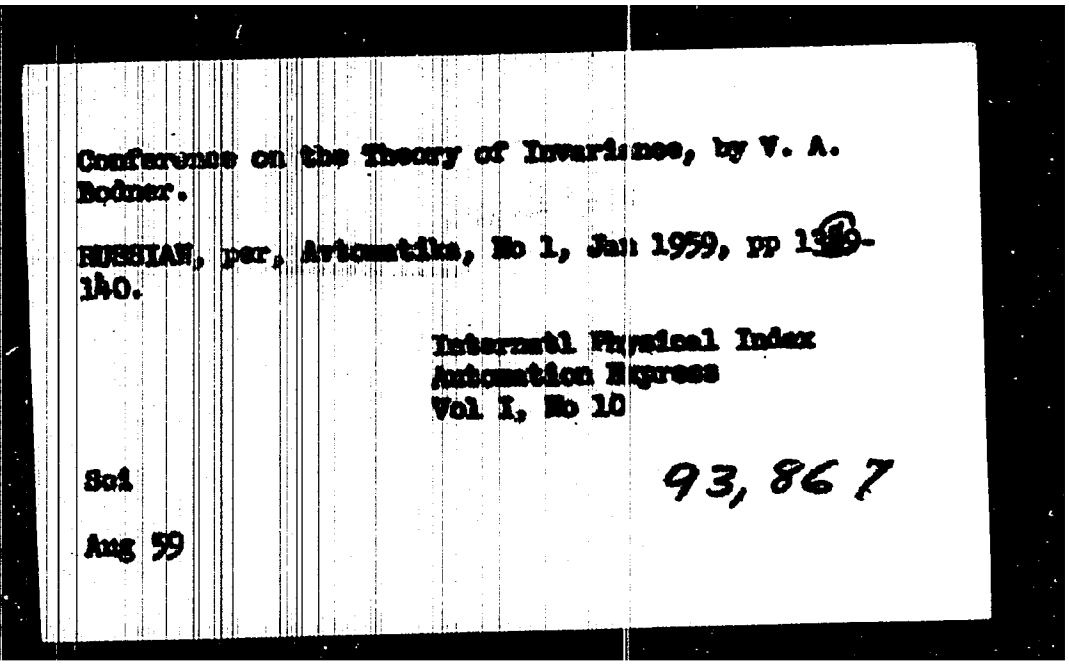

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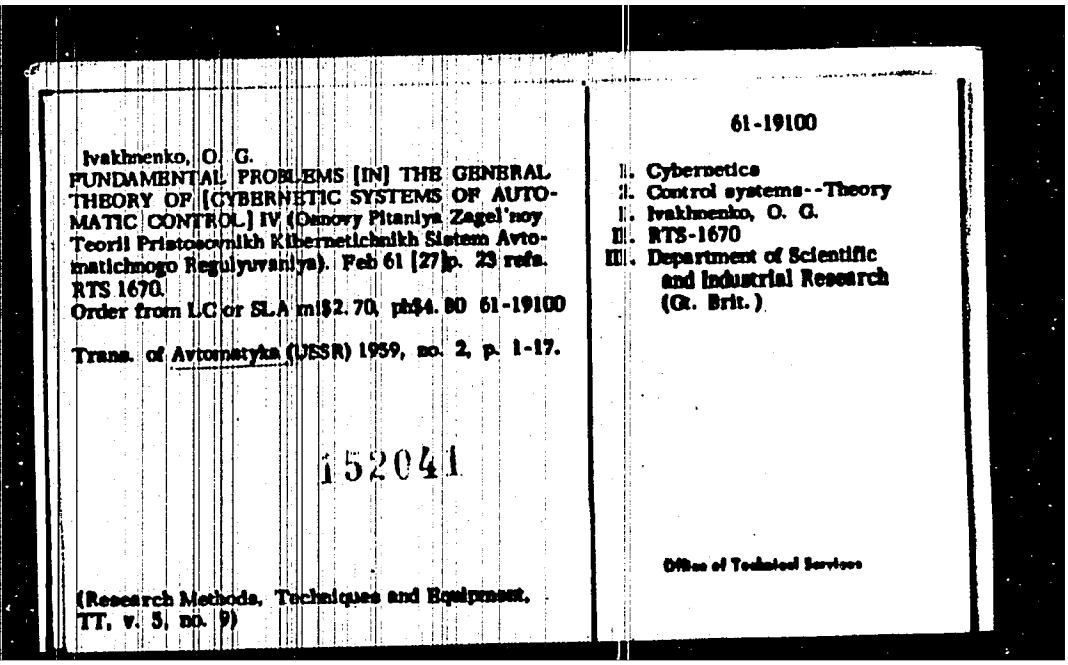

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152041

(Research Methods, Techniques and Equipment, TT, v. 5, no. 9)

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II. Control systems--Theory
II. Ivakhnenko, O. G.
III. RTS-1670
III. Department of Scientific and Industrial Research (Gt. Brit.)

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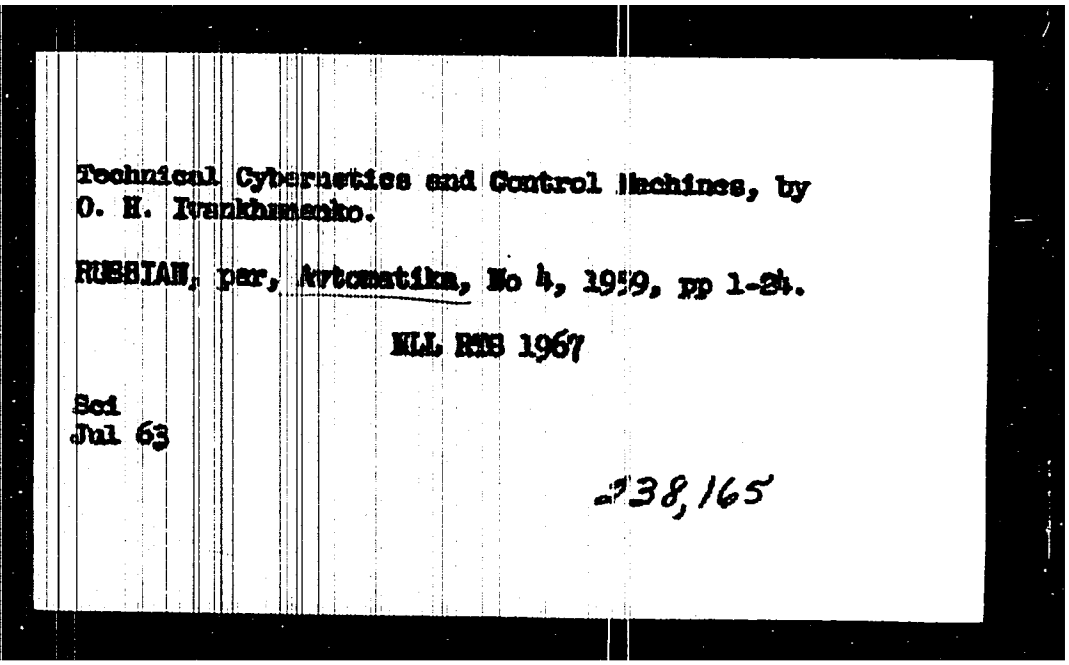

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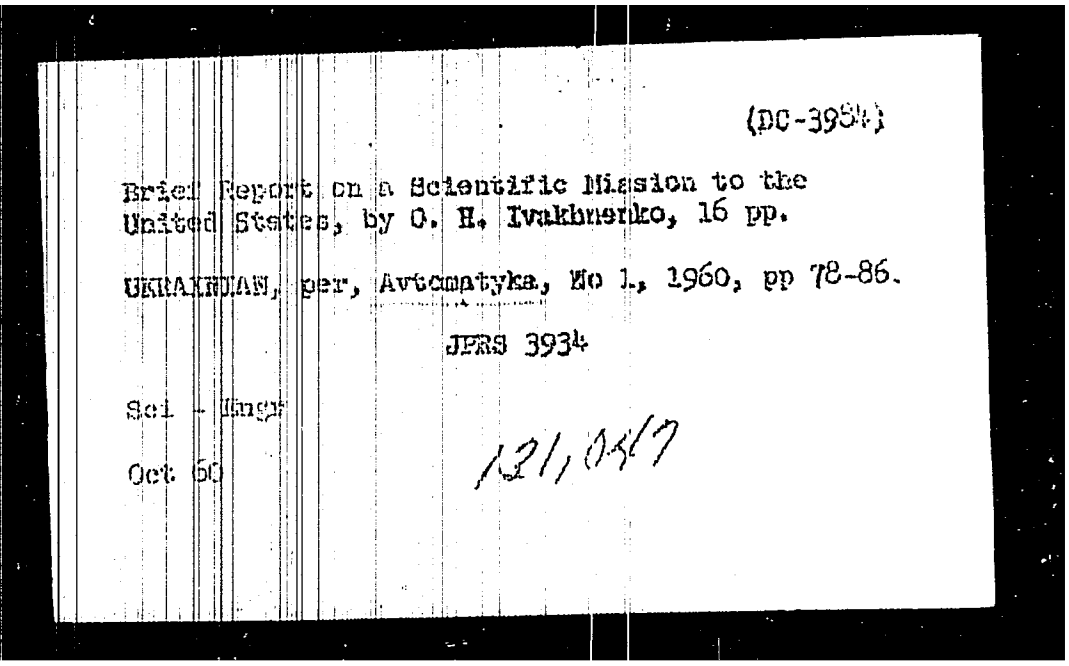

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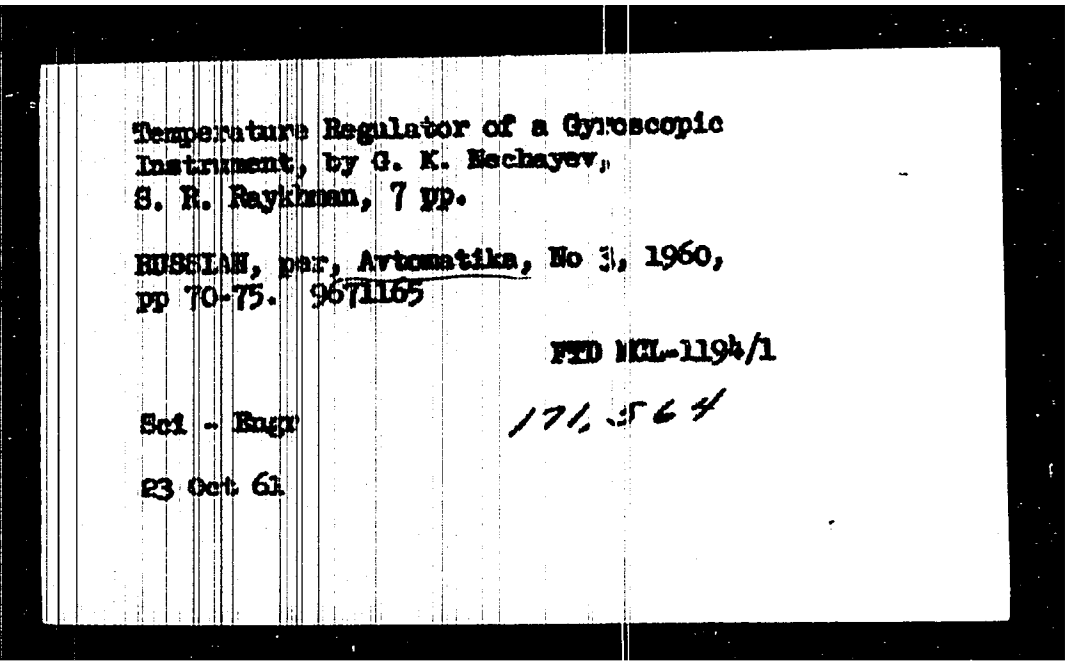

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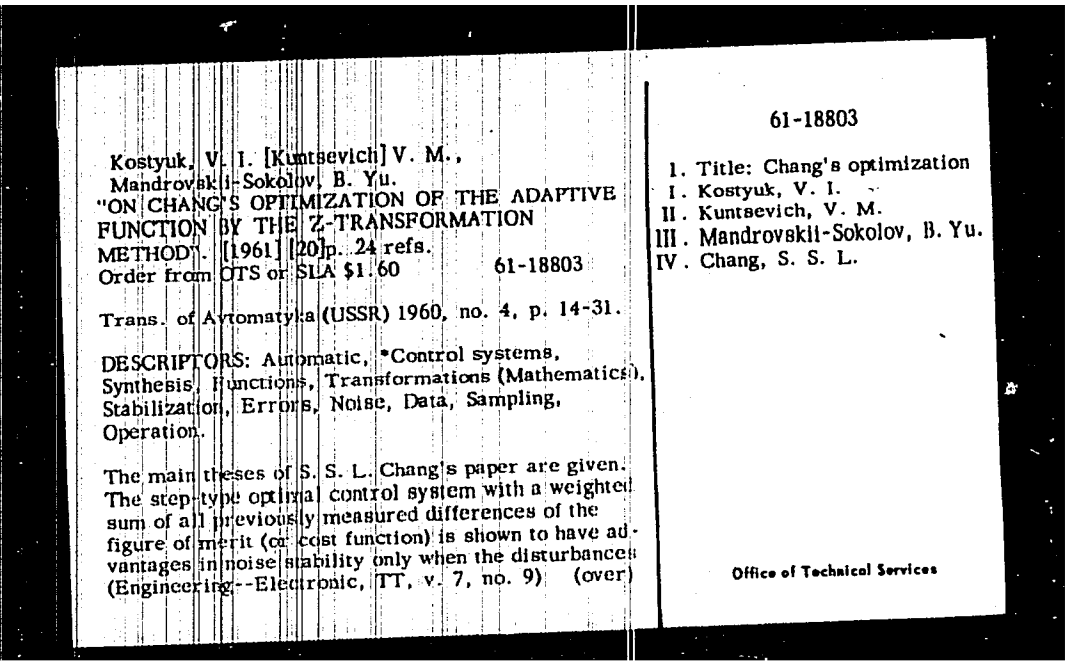

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"ON CHANG'S OPTIMIZATION OF THE ADAPTIVE FUNCTION BY THE Z-TRANSFORMATION METHOD". [1961] [20]p. 24 refs.
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DESCRIPTORS: Automatic, *Control systems, Synthesis, Functions, Transformations (Mathematics), Stabilization, Errors, Noise, Data, Sampling, Operation.

The main theses of S. S. L. Chang's paper are given. The step-type optimal control system with a weighted sum of all previously measured differences of the figure of merit (or cost function) is shown to have advantages in noise stability only when the disturbances (Engineering--Electronic, TT, v. 7, no. 9) (over)

61-18803

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II. Kuntsevich, V. M.
III. Mandrovskii-Sokolov, B. Yu.
IV. Chang, S. S. L.

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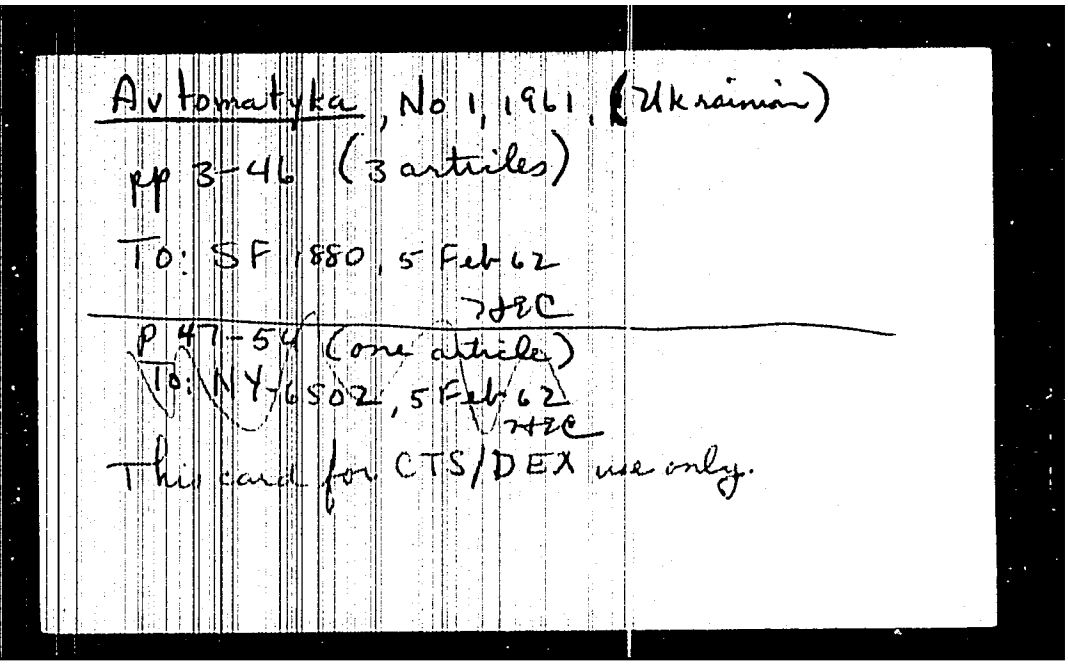

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pp 3-46 (3 articles)

TO: SF 1880, 5 Feb 62

JHC

P 47-54 (one article)

TO: NY 6502, 5 Feb 62

JHC

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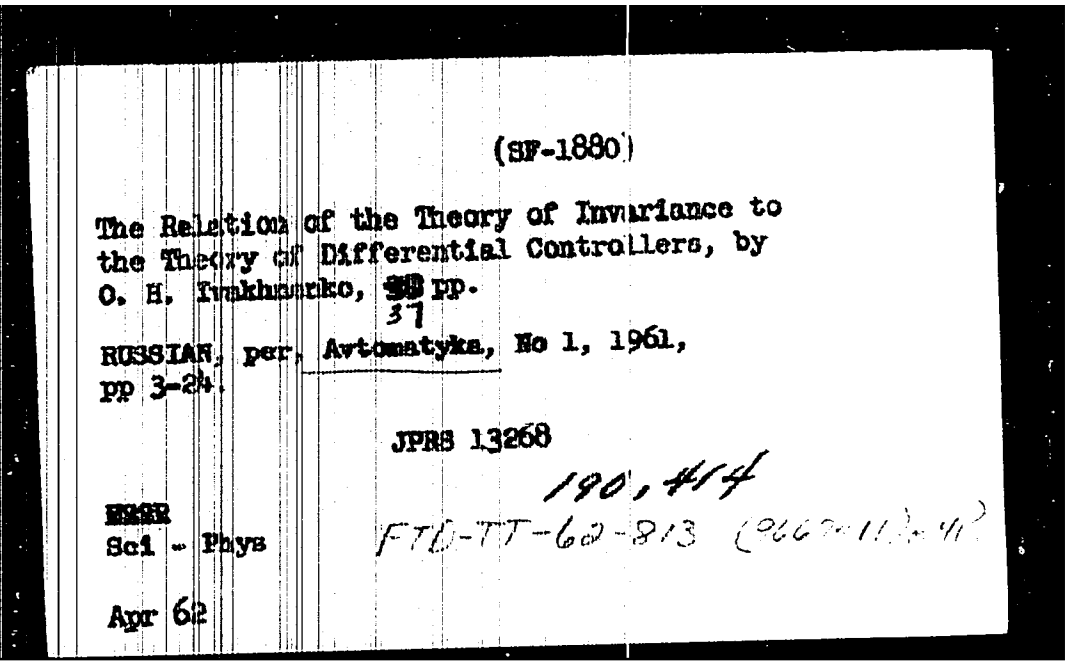

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JPRS 13268

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FTD-TT-62-813 (26671/1+4)

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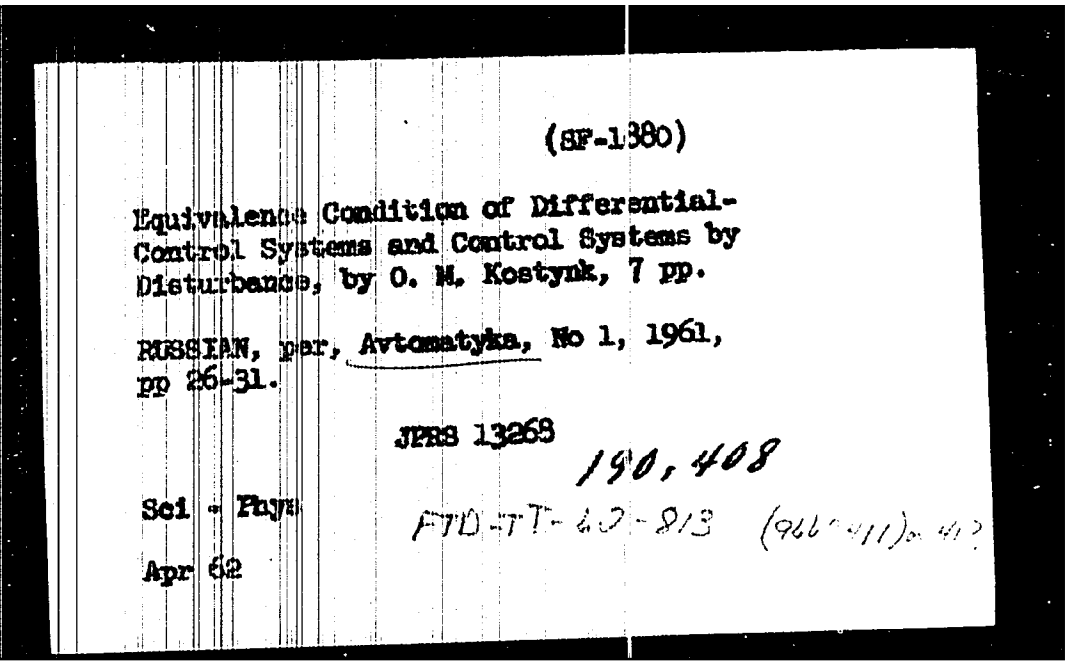

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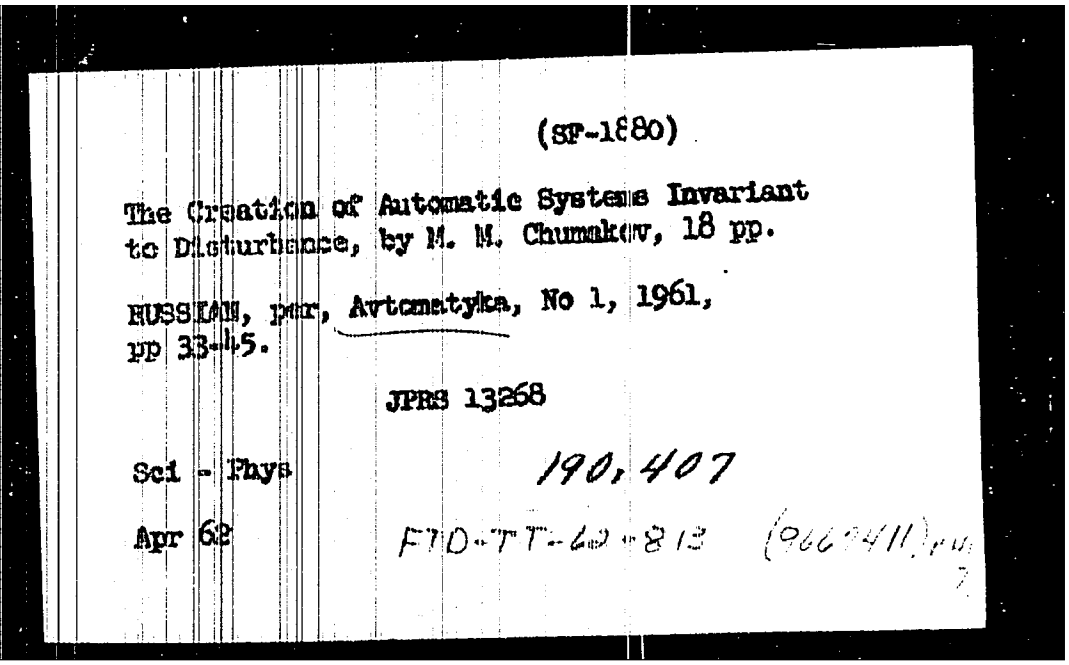

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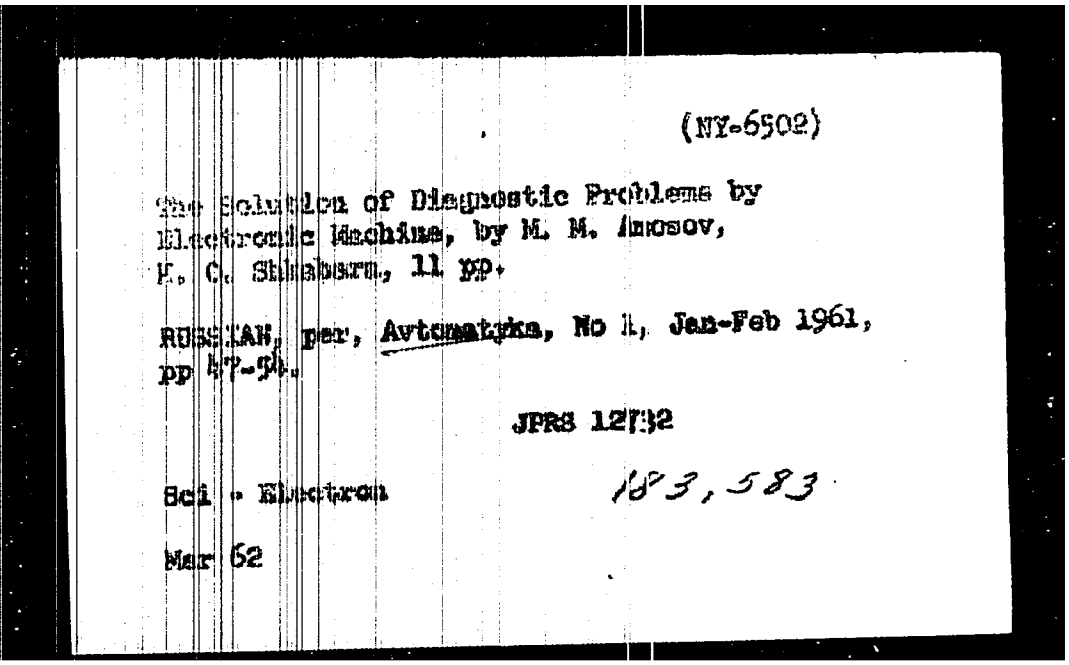

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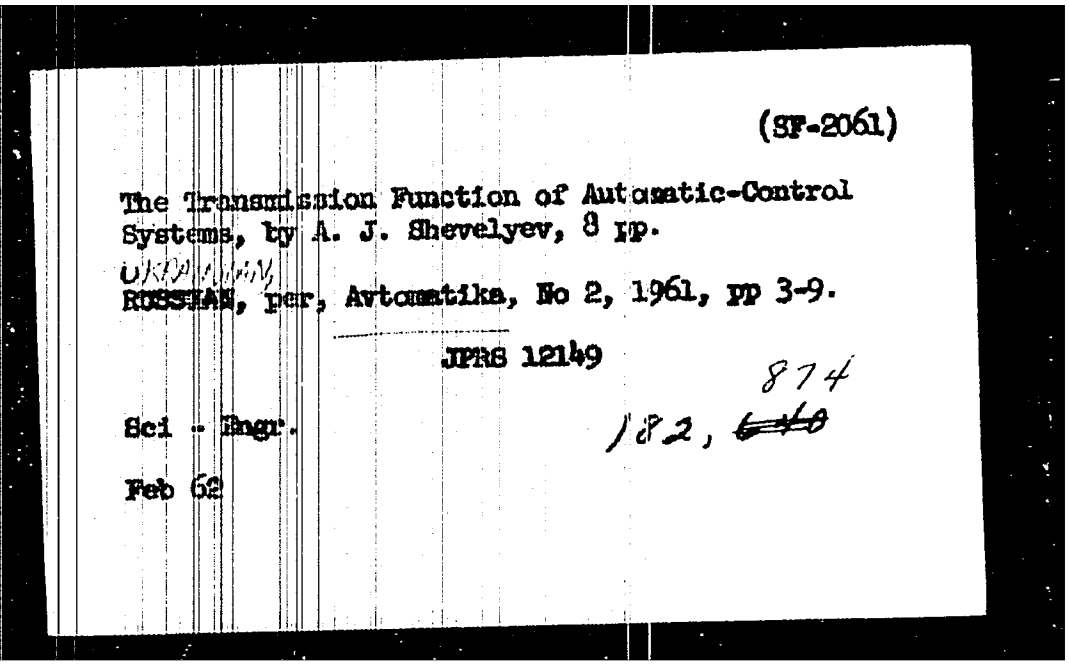

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JPRS 12149

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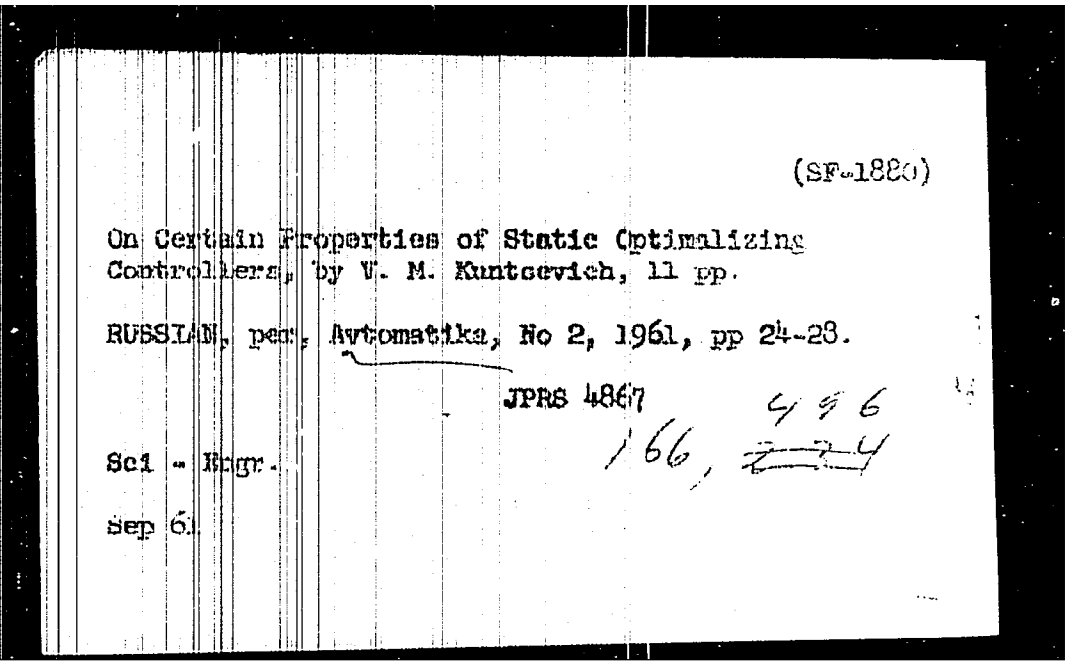

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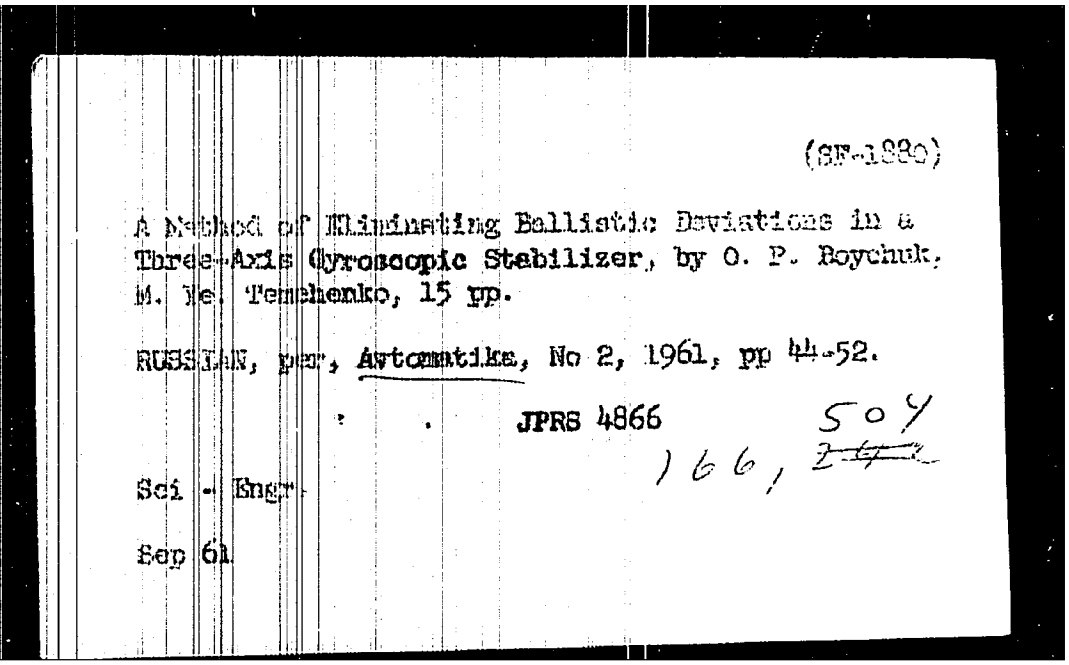

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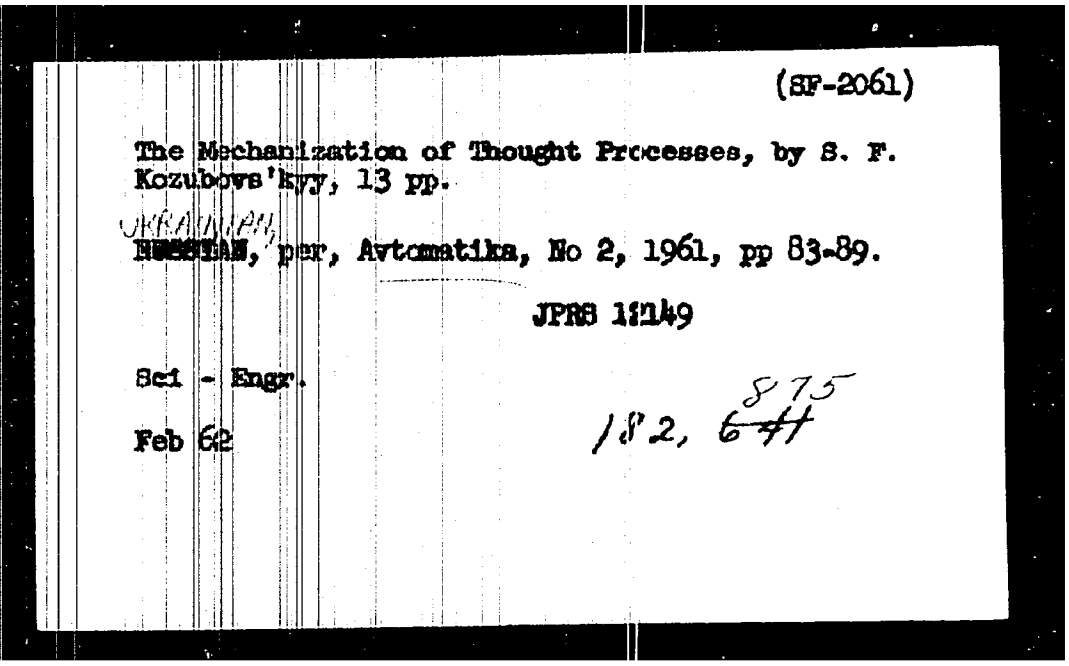

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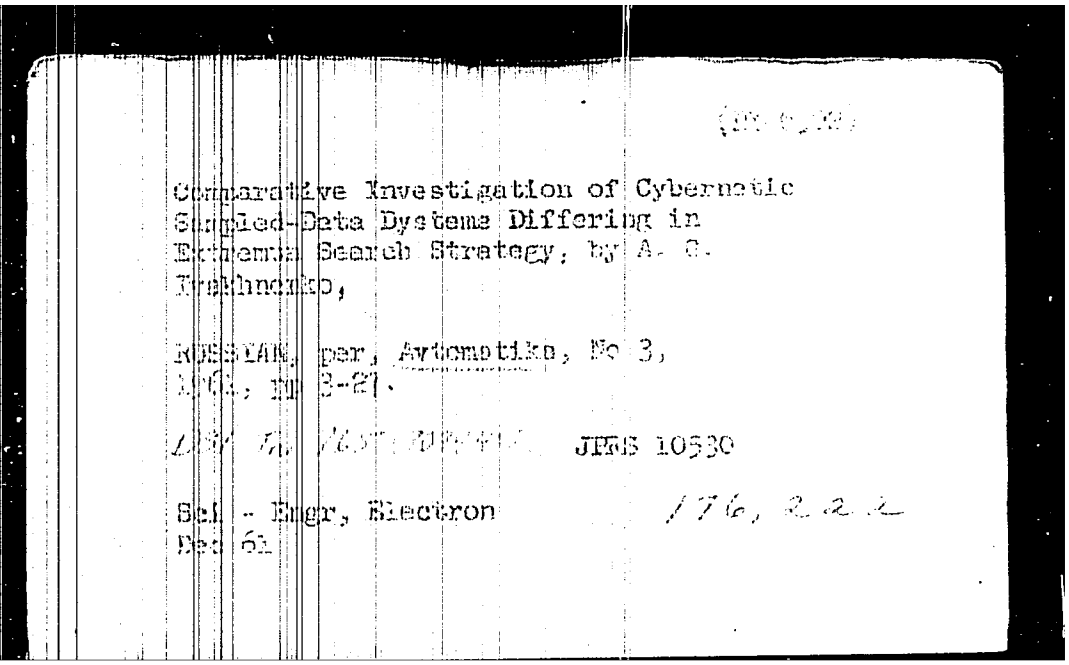

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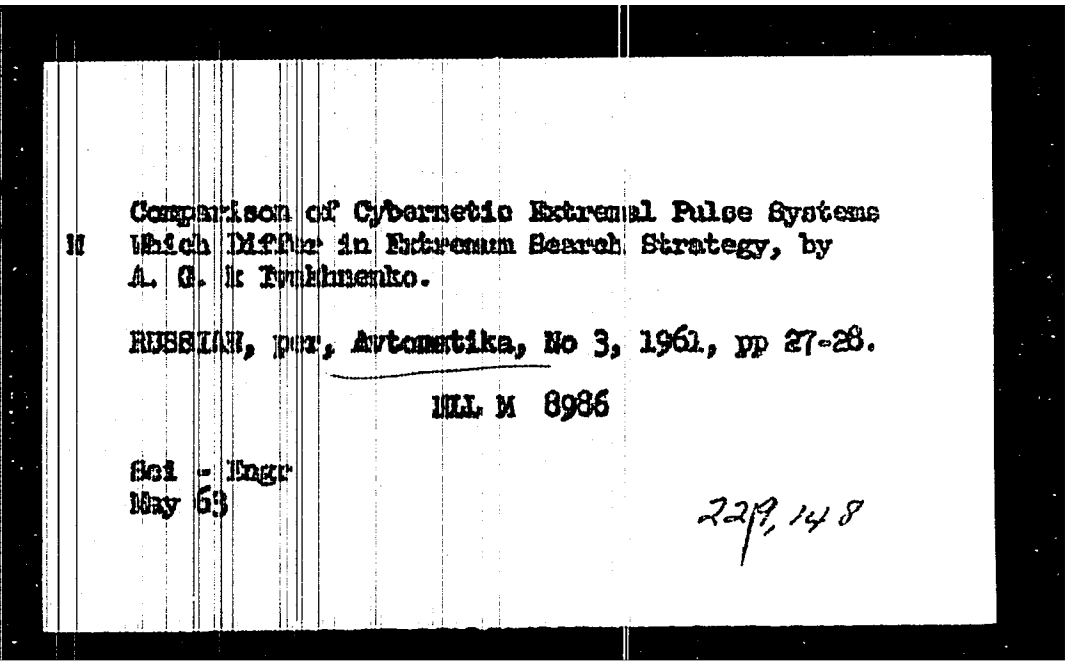

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MIL M 6986

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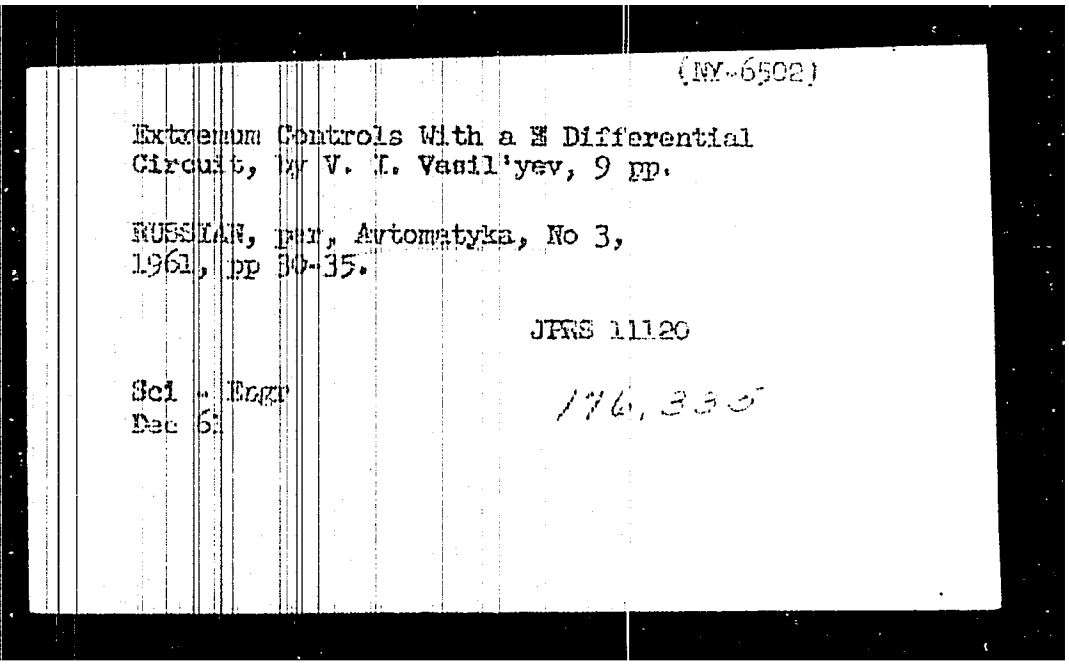

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JPRS 11120

Sci - Engr
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176,330

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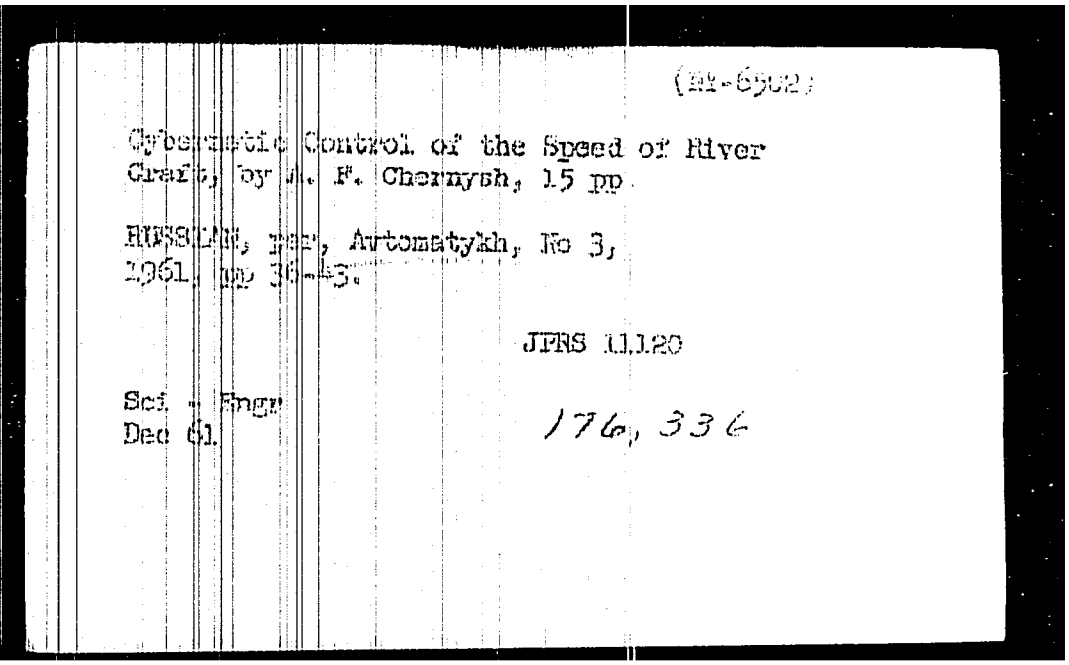

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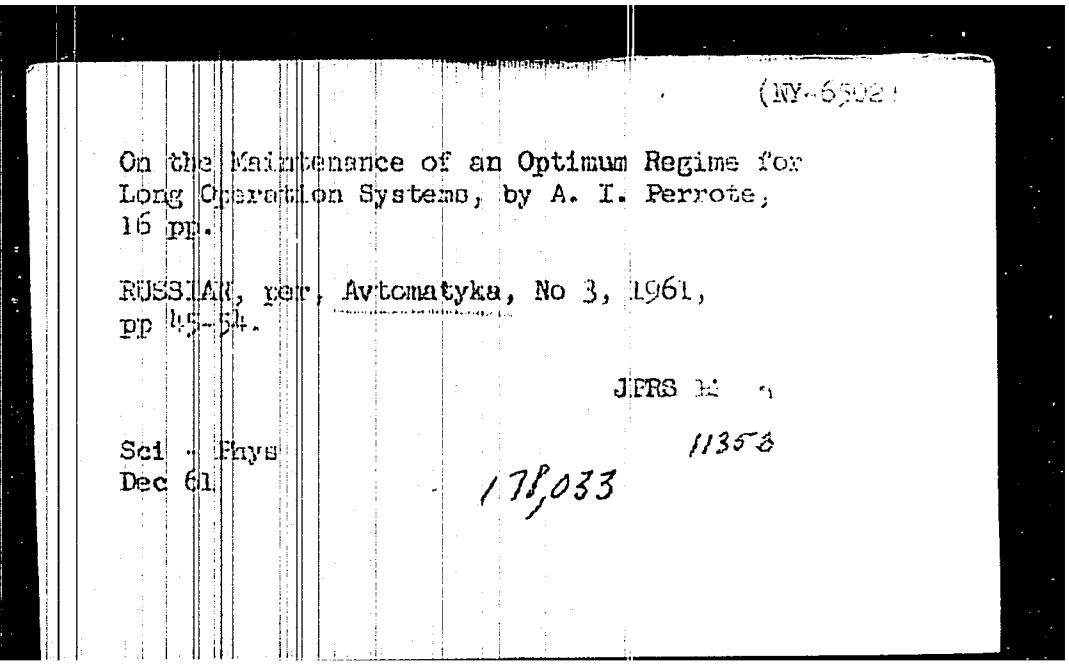

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JPRS [illegible]

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Sci - Engr

JPRS 12485

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Sci - Engr

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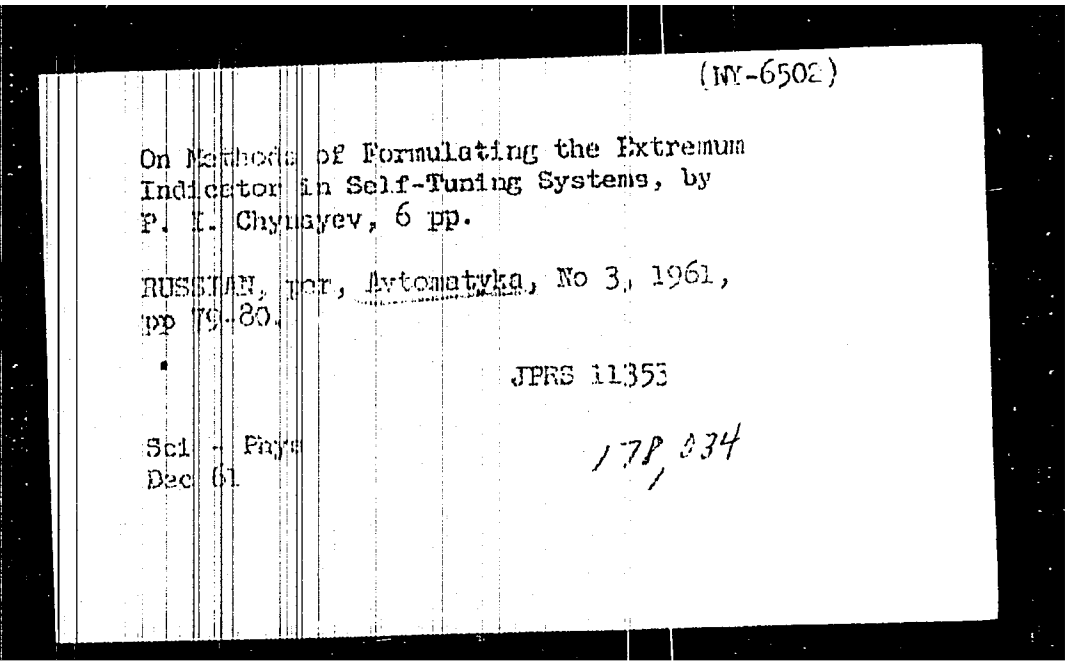

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JPRS 11353

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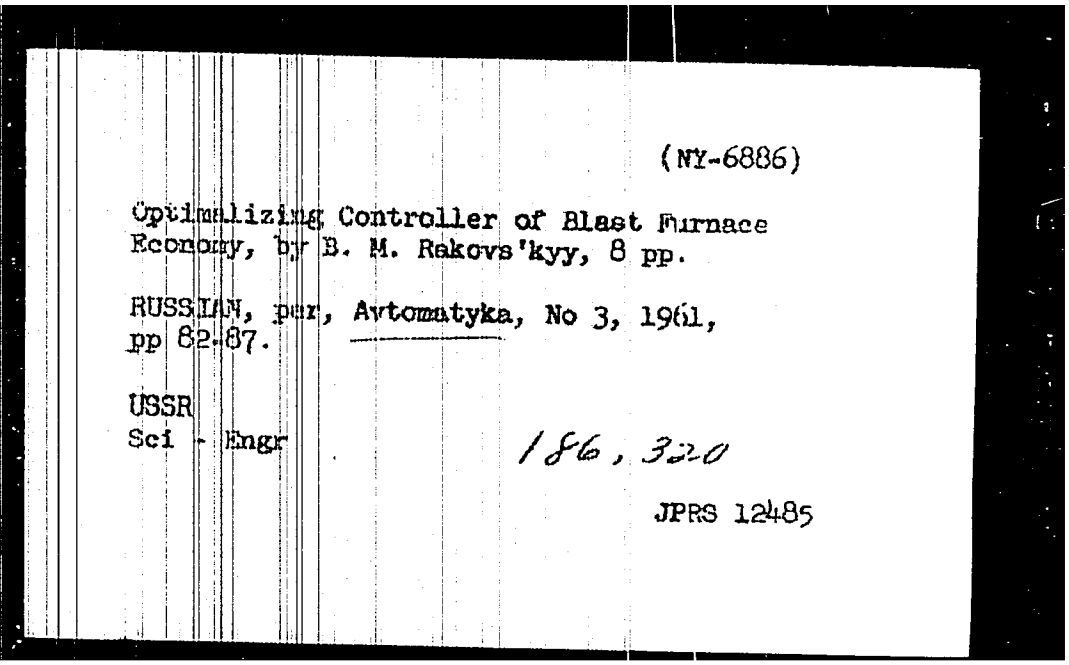

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USSR
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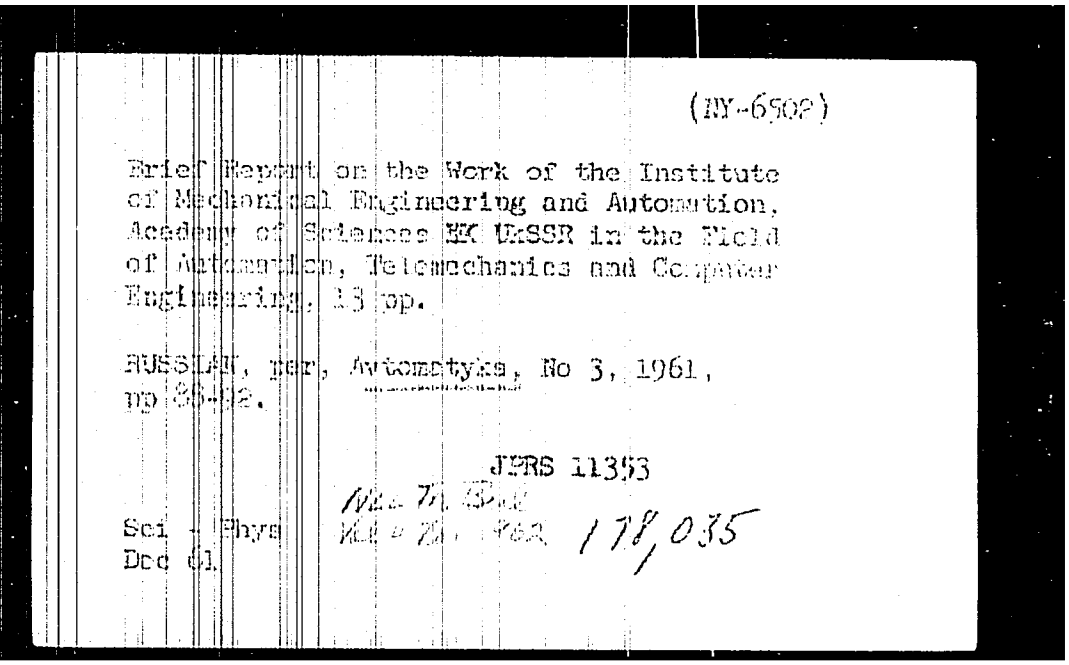

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JPRS 11353

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JPRS 14390

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JUL 62

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(DC-6791)

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JPRS 14390

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JPRS 14390

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JPRS 14390

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JPRS 14390

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(DC-6791)

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JPRS 14390

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JPRS 14390

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SOME ANALYSIS AND SYNTHESIS QUESTIONS OF THE CENTRALIZED CONTROL SYSTEMS FOR EXPOSURE OF DEFLECTIONS BEYOND THE PRESUMABLE LIMITS, BY O. S. BELIMA, 9 PP.

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JPRS 14390

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AUTOMATIC CONTROL SYSTEM FOR A HYDRAULIC MONITOR,
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JPRS 14390

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JPRS 13671

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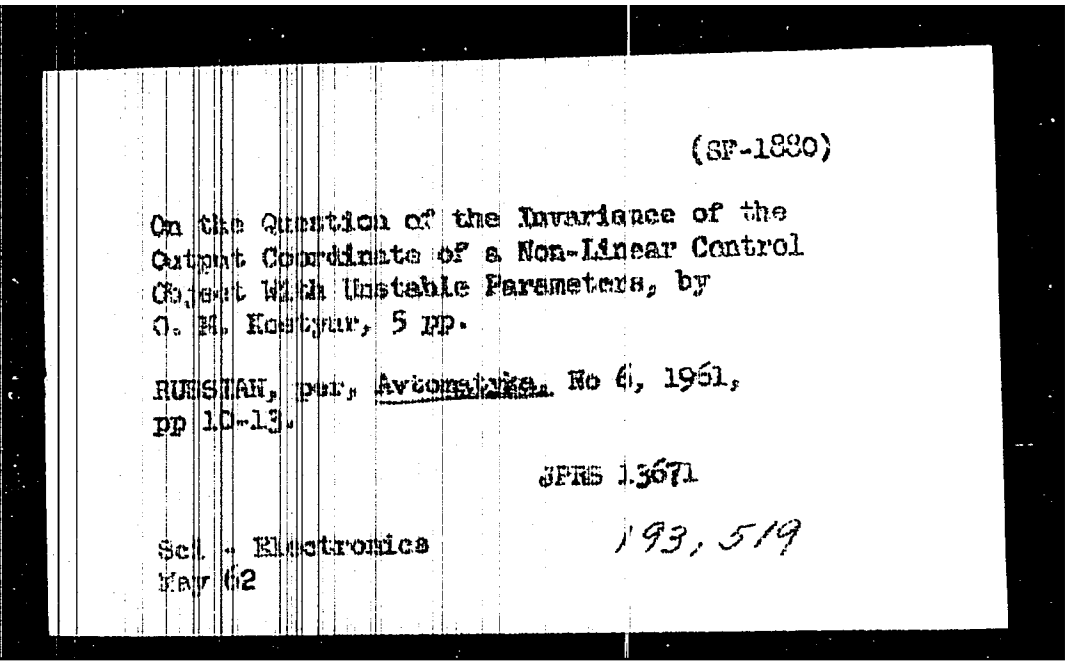

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JPRS 13671

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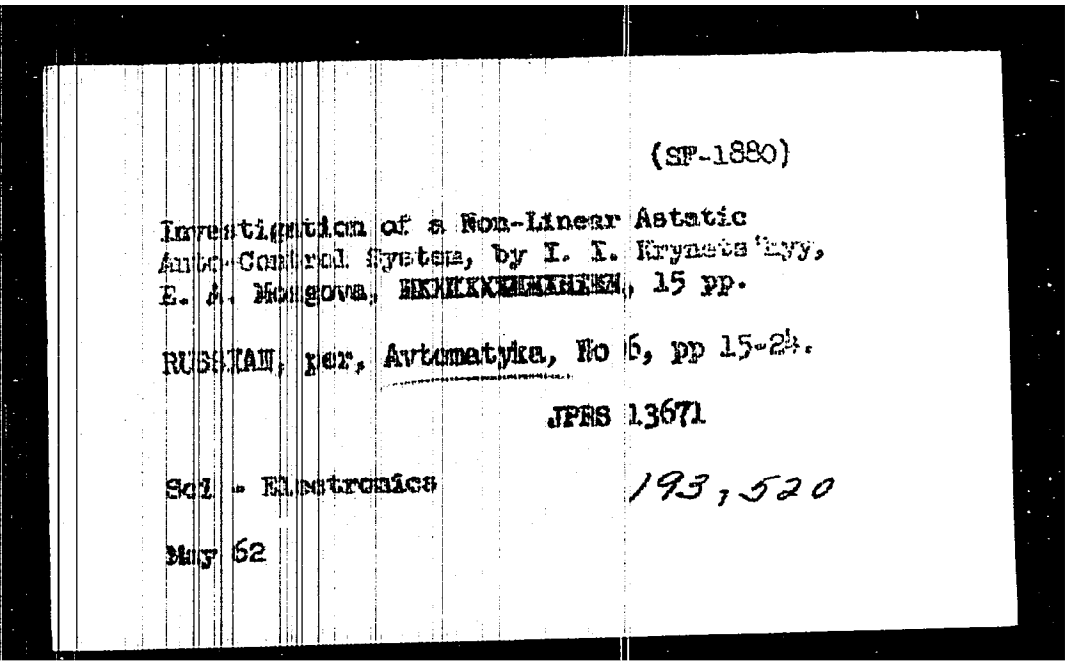

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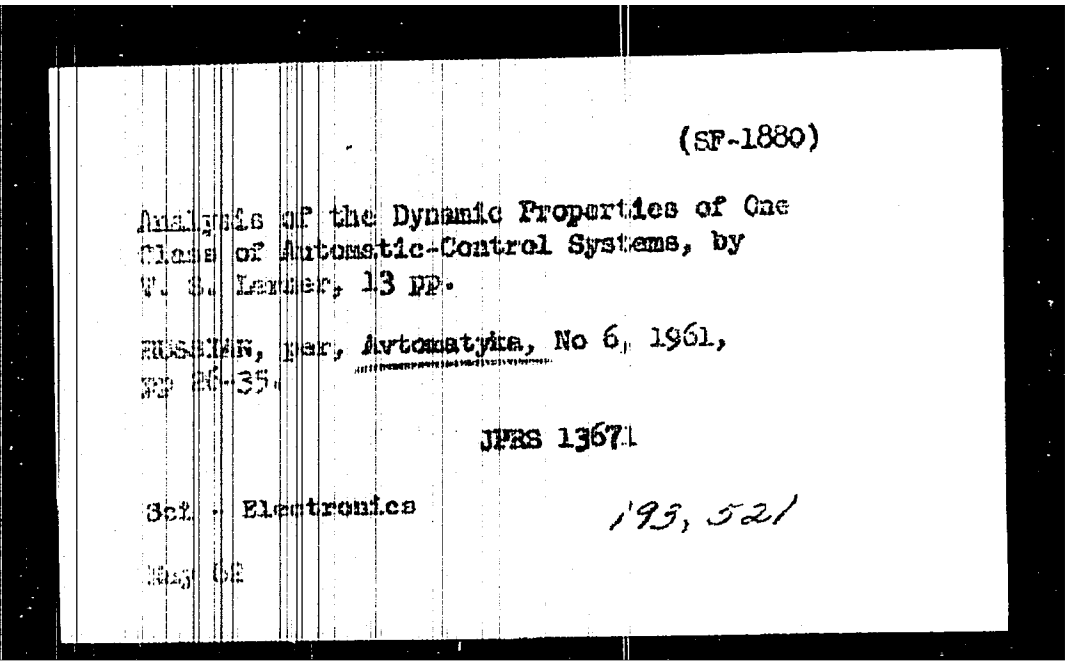

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(SPO 1880)

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